



2022-2026

CAPITAL
IMPROVEMENT
PROGRAM



city of
Ankeny

2022-2026

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 2023 budget. It includes the costs associated with the 2022 capital projects, the first year of the 2022-2026 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 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 2022-2026 Capital Improvement Program reflects a \$17,232,944 increase in project expenditures over last year's program due to large increases in the streets and water towers/storage categories. The streets category increased due to additional investment in annual programs such as the Annual PCC Street Patching Program and Annual Street Replacement Program and the addition of new projects, including the NE 36th Street Reconstruction – Interstate 35 to NE Four Mile Drive, NW Weigel Drive Asphalt Overlay – NW 18th Street to NW 36th Street and West 1st Street Widening and Improvements – Phase 2. The water towers/storage category increased due to growth in project costs for the Aquifer Storage and Recovery Well No. 1 Replacement.

GOALS

The city council's goals provide policy guidance for the evaluation of capital improvement 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

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 2022-2026 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 2022 capital improvement projects will become part of the adopted 2023 budget, the emphasis in the capital improvement process is on the 2022 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 2022-2026, the capital improvement program totals \$164,859,111. Of this total, 52% is identified for transportation projects, 38% for municipal utilities (water, sewer and storm water) projects, 4% for municipal buildings, 3% for parks and 3% for sidewalks/trails.

Capital budget requirements for 2022 total \$46,119,206. Capital spending authorizations by project category for the upcoming year include:

Bridge/Box Culvert	\$1,313,000	2.85%
Municipal Buildings	240,000	0.52%
Parks	1,965,000	4.26%
Sewer	3,646,551	7.91%
Sidewalks/Trails	1,115,000	2.42%
Storm Water	2,345,000	5.08%
Streets	21,681,000	47.01%
Traffic Control	1,205,000	2.61%
Water	5,108,655	11.08%
Water Towers/Storage	7,500,000	16.26%

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 2022-2026 Capital Improvement Program with 67% 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 2022-2026 Capital Improvement Program.

Funding Source	Revenue	% of Revenue
Property Taxes	\$54,751,000	33%
Grants and Intergovernmental	15,760,344	10%
Tax Increment Financing	18,322,000	11%
Municipal Utilities Revenues	49,801,105	30%
Miscellaneous Revenues	26,224,662	16%
Total	\$164,859,111	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 \$54,751,000, or 33%, 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 \$15,760,344 to be received from grant awards or intergovernmental assistance, representing 10% of all revenue sources.

The projects most dependent upon grants and intergovernmental support are the Aquifer Storage and Recovery Well No. 1 Replacement, NE Delaware Avenue Reconstruction – NE 5th Street to NE 18th Street and West 1st Street Widening and Improvements – Phase 1. Staff has secured \$6.09 million, \$3.00 million and \$1.52 million, respectively for these three projects from the federal government, Iowa Department of Transportation (DOT) and Des Moines Area Metropolitan Planning Organization (MPO).

For 2022, staff has secured \$1.27 million from the Des Moines Area MPO and \$1.30 million from the Iowa DOT for the West 1st Street Widening and Improvements – Phase 1 and SE Crosswinds Drive/SE 77th Street Improvements – Phase 2 projects. In addition, \$6.09 million will be received from the federal government's American Rescue Plan Act for the Aquifer Storage and Recovery Well No. 1 Replacement project.

TAX INCREMENT FINANCING

Of the five funding sources, \$18,322,000, or 11%, is being financed through TIF abatement. The West 1st Street Widening and Improvements – Phase 1, Uptown Parking Improvements and NE 36th Street Reconstruction – Interstate 35 to NE Four Mile Drive projects are planned for construction in 2022. These projects are located within the Ankeny 1991 Urban Renewal Area and Ankeny Northeast 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 \$49,801,105, or 30%, of the capital improvement program financial plan.

Projects within the annual utility programs for 2022 include:

- NW Northlawn Area utility improvements;
- Sanitary sewer spot repairs, manhole repairs and slip lining; and
- Storm water projects include the Diamond Hills Greenway stream repairs, NW 18th Street storm sewer intake improvements, West 1st Street basin structure repairs and SW Ankeny Road culvert repairs.

Major utility projects planned for 2022 construction include the Otter Creek Trunk Sewer – Phase 3, SE 3rd Street Trunk Sewer Extension, High Trestle Trail Channel Stabilization – Phase 1, SE 3rd Street Area Storm Sewer Improvements, High Trestle Trail Transmission Main – Phase 1 and Aquifer Storage and Recovery Well No. 1 Replacement.

MISCELLANEOUS REVENUES

The financial plan includes contributions from miscellaneous sources totaling \$26,224,662, or 16%, of the 2022-2026 Capital Improvement Program. This includes capital project fund cash balances, capital reserve fund cash balances, civic trust fund contributions, county contributions, general fund cash balances, hotel/motel tax fund revenues, park dedication fund cash balances, private contributions and road use tax fund 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 2022 through 2026 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

2022-2026 Capital Improvement Program

2022 CIP Projects by Funding Source

Project	Project #	2022	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	\$ 385,000	\$ 305,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	200,000									250,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	750,000								750,000				
Annual Storm Water Replacement Program	STM-00-001	400,000								400,000				
Annual PCC Street Patching Program	STR-00-001	765,000	265,000									500,000		
Annual Asphalt Street Resurfacing Program	STR-00-002	340,000	340,000											
Annual Pavement Preservation Program	STR-00-003	350,000	350,000											
Annual Street Replacement Program	STR-00-004	1,500,000								500,000		1,000,000		
Annual Traffic Signal Improvement Program	TRF-00-001	1,080,000	950,000									130,000		
Annual Water Main Replacement Program	WTM-00-001	115,000								115,000				
Fire Station No. 4	BLD-20-002	150,000								150,000				
Lakeside Center Renovations	BLD-21-001	50,000											50,000	
Public Works Winter Operations Satellite Facility	BLD-21-002	40,000										40,000		
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	1,313,000	266,000							1,047,000				
Des Moines Street Parks Development	PRK-21-002	450,000												450,000
Miracle Park Wheelchair Swing	PRK-22-002	80,000								40,000				40,000
Prairie Ridge Sports Complex - Softball Bleacher Canopies	PRK-22-003	150,000								75,000				75,000
High Trestle Trail Experience Park	PRK-22-005	400,000	200,000								200,000			
Cherry Glen Ballfield	PRK-22-006	500,000												500,000
High Trestle Trail Extension - SE Magazine Road to SE Oralabor Road	SDW-16-001	100,000	100,000											
Oralabor Gateway Trail - SW State Street Grade-Separated Crossing	SDW-19-001	185,000	185,000											
Rock Creek Trail and Native Plantings	SDW-21-001	380,000	180,000						200,000					
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	685,000								685,000				
Four Mile Creek Trunk Sewer	SNS-20-001	190,000								190,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	890,000								890,000				
Canyon Landing Sanitary Sewer Cost Share - Phase 2	SNS-21-001	493,351								493,351				
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	600,000								600,000				
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	38,200								38,200				
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	20,000		20,000										
High Trestle Trail Channel Stabilization - Phase 1	STM-20-002	275,000		275,000										
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	50,000		50,000										
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	40,000		40,000										
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	1,220,000		820,000						400,000				
Westwinds Storm Sewer Extension	STM-21-002	190,000		190,000										
SE Creekview Drive Wetland	STM-22-001	150,000							150,000					
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	700,000								700,000				
West 1st Street Widening and Improvements - Phase 1	STR-16-004	3,000,000			1,485,000				1,515,000					
SE Crosswinds Drive/SE 77th Street Improvements - Phase 2	STR-19-008	2,584,000							1,051,000					1,533,000
NW 36th Street and NW State Street Interim Improvements	STR-20-003	785,000	785,000											
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	305,000	305,000											
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	4,225,000	4,225,000											
SE Delaware Avenue Widening	STR-20-006	1,000,000	1,000,000											
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	200,000	200,000											
SW State Street Reconstruction - SW Ordnanace Road to West 1st Street (Southbound Lanes)	STR-21-001	75,000	75,000											
Uptown Parking Improvements	STR-21-006	180,000			180,000									
NE 36th Street Reconstruction - Interstate 35 to NE Four Mile Drive	STR-22-001	5,672,000			5,672,000									
Elementary Schools Walkability Improvements	TRF-22-001	125,000										125,000		
High Trestle Trail Transmission Main - Phase 1	WTM-17-001	2,365,000					2,365,000							
Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	625,000								625,000				
South Ankeny Boulevard Transmission Main	WTM-18-001	235,000					235,000							
NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,270,655								1,270,655				
High Trestle Trail Transmission Main - Phase 2	WTM-21-001	178,000					178,000							
Centennial Estates Water Main Cost Share	WTM-22-001	145,000								145,000				
North Ankeny Boulevard Water Main - NE 41st Street to Unity Point	WTM-22-002	175,000								175,000				
Aquifer Storage and Recovery Well No. 1 Replacement	WTT-17-002	7,150,000							6,094,344	1,055,656				
Northwest Water Tower	WTT-19-002	350,000					350,000							
		\$ 46,119,206	\$ 9,931,000	\$ 1,395,000	\$ 7,337,000	\$ -	\$ 3,128,000	\$ -	\$ 9,010,344	\$10,424,862	\$ 200,000	\$ 2,045,000	\$ 50,000	\$ 2,598,000

2022 Bond Issue Project Costs	\$ 18,663,000
Cost of Issuance	247,000
Projected 2022 Bond Issue Total	\$ 18,910,000

2022-2026 Capital Improvement Program

2023 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2023	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	\$ 385,000	\$ 305,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	200,000									250,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	630,000								630,000				
Annual Storm Water Replacement Program	STM-00-001	400,000								400,000				
Annual PCC Street Patching Program	STR-00-001	1,325,000	1,325,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	300,000	300,000											
Annual Street Replacement Program	STR-00-004	1,200,000	700,000									500,000		
Annual Traffic Signal Improvement Program	TRF-00-001	1,175,000	1,065,000									110,000		
Annual Water Main Replacement Program	WTM-00-001	625,000								625,000				
Lakeside Center Renovations	BLD-21-001	250,000											250,000	
Public Works Winter Operations Satellite Facility	BLD-21-002	420,000										420,000		
NE Frisk Drive Bridge over Deer Creek	BRG-22-001	90,000	90,000											
Des Moines Street Parks Development	PRK-21-002	565,000												565,000
Oralabor Gateway Trail - SW State Street Grade-Separated Crossing	SDW-19-001	1,875,000	825,000						1,050,000					
Clover Ridge Trail	SDW-21-002	85,000	85,000											
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	210,000								210,000				
Four Mile Creek Trunk Sewer	SNS-20-001	1,960,000								1,960,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	870,000								870,000				
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	381,810								381,810				
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	45,000		45,000										
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	490,000		490,000										
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	270,000		270,000										
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	1,175,000		775,000						400,000				
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	160,000		160,000										
SE Creekview Drive Wetland	STM-22-001	750,000							750,000					
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	4,075,000	775,000						2,000,000	1,300,000				
North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001	80,000	40,000								40,000			
SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006	175,000	100,000						75,000					
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	2,775,000	2,775,000											
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	75,000	75,000											
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	2,110,000			1,310,000				800,000					
SW State Street Reconstruction - SW Ordnance Road to West 1st Street (Southbound Lanes)	STR-21-001	1,425,000	1,425,000											
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	75,000	75,000											
Interstate 35 and SE Corporate Woods Drive Interchange Justification Report	TRF-21-001	100,000							50,000			50,000		
South Ankeny Boulevard Transmission Main	WTM-18-001	2,390,000					2,390,000							
High Trestle Trail Transmission Main - Phase 2	WTM-21-001	1,926,000					1,926,000							
NE 36th Street and NE 38th Street Water Main Loop	WTM-22-003	212,885					212,885							
Northwest Water Tower	WTT-19-002	7,150,000					7,150,000							
SE Delaware Ground Storage Tank Repaint	WTT-20-001	300,000					300,000							
		\$ 38,955,695	\$ 10,160,000	\$ 1,740,000	\$ 1,310,000	\$ -	\$ 11,978,885	\$ -	\$ 4,725,000	\$ 6,856,810	\$ 40,000	\$ 1,330,000	\$ 250,000	\$ 565,000

2023 Bond Issue Project Costs	\$ 13,210,000
Cost of Issuance	190,000
Projected 2023 Bond Issue Total	\$ 13,400,000

2022-2026 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	\$ 385,000	\$ 305,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	200,000									250,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,165,000								1,165,000				
Annual Storm Water Replacement Program	STM-00-001	400,000								400,000				
Annual PCC Street Patching Program	STR-00-001	1,310,000	1,310,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	300,000	300,000											
Annual Pavement Preservation Program	STR-00-003	750,000	750,000											
Annual Street Replacement Program	STR-00-004	1,350,000	1,350,000											
Annual Traffic Signal Improvement Program	TRF-00-001	1,130,000	1,020,000									110,000		
Annual Water Main Replacement Program	WTM-00-001	560,000								560,000				
Fire Station No. 4	BLD-20-002	500,000											500,000	
SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001	325,000	325,000											
NE 18th Street Bridge over Interstate 35	BRG-22-002	50,000	50,000											
Des Moines Street Parks Development	PRK-21-002	880,000												880,000
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	1,215,000								1,215,000				
Clover Ridge Trunk Sewer Extension	SNS-22-003	66,100								66,100				
Sawgrass Park Dam Improvements	STM-19-004	85,000		85,000										
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	435,000		435,000										
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	2,280,000		2,280,000										
Westlawn Area Storm Sewer Improvements	STM-20-005	35,000		35,000										
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,310,000		910,000						400,000				
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	5,200,000	3,700,000						1,500,000					
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	100,000			100,000									
North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001	1,190,000	532,500						125,000		532,500			
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	150,000	150,000											
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	90,000	90,000											
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	50,000	50,000											
NW Weigel Drive Asphalt Overlay - NW 18th Street to NW 36th Street	STR-22-002	125,000	125,000											
West 1st Street Widening and Improvements - Phase 2	STR-22-003	500,000			500,000									
Saylorville Feeder Main Purchase Capacity	WTM-17-008	701,000					701,000							
South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001	112,000					112,000							
NE 36th Street and NE 38th Street Water Main Loop	WTM-22-003	2,315,000					2,315,000							
SE Magazine Ground Storage Tank Repaint	WTT-20-002	400,000					400,000							
		\$ 26,264,100	\$ 10,607,500	\$ 3,745,000	\$ 600,000	\$ -	\$ 3,528,000	\$ -	\$ 1,625,000	\$ 3,886,100	\$ 532,500	\$ 360,000	\$ 500,000	\$ 880,000

2024 Bond Issue Project Costs	\$ 14,952,500
Cost of Issuance	217,500
Projected 2024 Bond Issue Total	\$ 15,170,000

2022-2026 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	\$ 385,000	\$ 305,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	200,000									250,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	625,000								625,000				
Annual Storm Water Replacement Program	STM-00-001	400,000								400,000				
Annual PCC Street Patching Program	STR-00-001	1,420,000	1,420,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	300,000	300,000											
Annual Street Replacement Program	STR-00-004	1,500,000	500,000									1,000,000		
Annual Traffic Signal Improvement Program	TRF-00-001	1,000,000	890,000									110,000		
Annual Water Main Replacement Program	WTM-00-001	620,000								620,000				
Fire Station No. 4	BLD-20-002	4,900,000											4,900,000	
NE 18th Street Bridge over Interstate 35	BRG-22-002	50,000	50,000											
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003	100,000	100,000											
Clover Ridge Trunk Sewer Extension	SNS-22-003	597,910								597,910				
Polk County Lift Station Decommissioning	SNS-22-004	81,650								81,650				
Sawgrass Park Dam Improvements	STM-19-004	405,000		405,000										
Westlawn Area Storm Sewer Improvements	STM-20-005	300,000		300,000										
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,240,000		840,000						400,000				
Diamond Hills Greenway Stream Stabilization	STM-22-002	30,000		30,000										
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	125,000	125,000											
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	400,000			400,000									
North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001	375,000	187,500								187,500			
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	525,000	525,000											
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	875,000	875,000											
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	920,000	920,000											
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	3,235,000	3,235,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	175,000	175,000											
NW Weigel Drive Asphalt Overlay - NW 18th Street to NW 36th Street	STR-22-002	1,185,000	1,185,000											
West 1st Street Widening and Improvements - Phase 2	STR-22-003	1,650,000			1,650,000									
NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004	100,000	100,000											
South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001	1,447,330					1,447,330							
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	110,000					110,000							
		\$ 25,526,890	\$ 11,092,500	\$ 1,575,000	\$ 2,050,000	\$ -	\$ 1,557,330	\$ -	\$ -	\$ 2,804,560	\$ 187,500	\$ 1,360,000	\$ 4,900,000	\$ -

2025 Bond Issue Project Costs	\$ 14,717,500
Cost of Issuance	212,500
Projected 2025 Bond Issue Total	\$ 14,930,000

2022-2026 Capital Improvement Program

2026 CIP Projects by Funding Source

2026 CIP Projects by Funding Source			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2026	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	\$ 385,000	\$ 305,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	200,000									250,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,255,000								1,255,000				
Annual Storm Water Replacement Program	STM-00-001	400,000								400,000				
Annual PCC Street Patching Program	STR-00-001	1,500,000	1,500,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	300,000	300,000											
Annual Pavement Preservation Program	STR-00-003	750,000	750,000											
Annual Street Replacement Program	STR-00-004	1,500,000	1,500,000											
Annual Traffic Signal Improvement Program	TRF-00-001	1,000,000	890,000									110,000		
Annual Water Main Replacement Program	WTM-00-001	650,000								650,000				
NE 18th Street Bridge over Interstate 35	BRG-22-002	450,000	450,000											
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	100,000			100,000									
Des Moines Street Parks Development	PRK-21-002	575,000												575,000
Polk County Lift Station Decommissioning	SNS-22-004	893,350								893,350				
Westlawn Area Storm Sewer Improvements	STM-20-005	1,625,000		1,225,000						400,000				
Diamond Hills Greenway Stream Stabilization	STM-22-002	120,000		120,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	30,000		30,000										
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	20,000		20,000										
Saylor Creek Tributary Channel Improvements	STM-22-005	60,000		60,000										
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	3,500,000			3,000,000				500,000					
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	5,450,000	5,450,000											
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	235,000	235,000											
West 1st Street Widening and Improvements - Phase 2	STR-22-003	3,925,000			3,925,000									
NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004	305,000	305,000											
NW State Street Water Main Improvements	WTM-19-003	120,000					120,000							
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	1,319,870					1,319,870							
		\$ 27,993,220	\$ 12,960,000	\$ 1,455,000	\$ 7,025,000	\$ -	\$ 1,439,870	\$ -	\$ 500,000	\$ 3,678,350	\$ -	\$ 360,000	\$ -	\$ 575,000

2026 Bond Issue Project Costs	\$21,440,000
Cost of Issuance	275,000
Projected 2026 Bond Issue Total	\$21,715,000

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Projected
2026

Annual Sidewalk/Trail Construction Program

<u>Annual Sidewalk/Trail Construction Program</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>
Beginning Cash Balance	\$ 55,456	\$ 43,107	\$ 43,107	\$ 43,107	\$ 43,107	\$ 43,107
Transfers In						
General Obligation Bonds	\$ 225,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Road Use Tax Fund	\$ 125,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Transfers In	\$ 350,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
Project Expenditures						
Pedestrian Ramp Improvements for ADA Compliance		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Sidewalk and Pedestrian Ramp Gaps along City Property		\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Sidewalk and Trail Panel Replacements		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Sidewalk Oversizing	\$ 75,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Otter Ridge Trail Panel Replacements	\$ 1,767					
SE Magazine Road 8' Sidewalk Upgrade - Phase 3 (SE Trilein Drive to SE Delaware Avenue)	\$ 6,645					
2021 Pedestrian Ramp Improvements	\$ 146,966					
2021 Sidewalk Gaps and Trail Replacements	\$ 107,972					
2021 Surface Restoration	\$ 24,000					
Total Project Expenditures	\$ 362,350	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
Remaining Cash Balance	\$ 43,107	\$ 43,107	\$ 43,107	\$ 43,107	\$ 43,107	\$ 43,107

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>
Beginning Cash Balance	\$ 1,381,005	\$ 1,526,834	\$ 1,376,834	\$ 1,446,834	\$ 981,834	\$ 1,056,834
<u>Transfers In</u>						
Sewer Fund	\$ 600,000	\$ 600,000	\$ 700,000	\$ 700,000	\$ 700,000	\$ 700,000
Sanitary Sewer Study and Master Plan - Close Project Fund	\$ 53					
Special Assessments Fund - Close Project Fund	\$ 251,568					
Total Transfers In	\$ 851,621	\$ 600,000	\$ 700,000	\$ 700,000	\$ 700,000	\$ 700,000
<u>Project Expenditures</u>						
Sanitary Sewer Oversizing	\$ 12,195	\$ 60,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs and Slip Lining	\$ 114,533	\$ 675,000	\$ 75,000	\$ 675,000	\$ 75,000	\$ 675,000
SE Eastlawn Area Utility Improvements	\$ 64,039					
NW Northlawn Area Utility Improvements	\$ 459,677	\$ 15,000	\$ 525,000	\$ 435,000	\$ 470,000	
Original Ankeny Area Utility Improvements				\$ 25,000	\$ 50,000	\$ 550,000
Total Project Expenditures	\$ 650,444	\$ 750,000	\$ 630,000	\$ 1,165,000	\$ 625,000	\$ 1,255,000
<u>Transfers Out</u>						
Sanitary Sewer Repairs - Close Project Fund	\$ 55,347					
Total Transfers Out	\$ 55,347	\$ -	\$ -	\$ -	\$ -	\$ -
Remaining Cash Balance	\$ 1,526,834	\$ 1,376,834	\$ 1,446,834	\$ 981,834	\$ 1,056,834	\$ 501,834

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>
Beginning Cash Balance	\$ 760,905	\$ 453,919	\$ 353,919	\$ 303,919	\$ 303,919	\$ 303,919
Transfers In						
Storm Water Fund	\$ 250,000	\$ 300,000	\$ 350,000	\$ 400,000	\$ 400,000	\$ 400,000
Total Transfers In	\$ 250,000	\$ 300,000	\$ 350,000	\$ 400,000	\$ 400,000	\$ 400,000
Project Expenditures						
Saylor Creek Repairs and Stabilization	\$ 65,948					
Triangle Detention Basin Outlet Modification	\$ 60,536					
Magazine Road Storm Sewer Improvements	\$ 78,594					
Saylor Creek Repairs and Restoration	\$ 237,743					
NW 9th Street and NW Greenwood Street Storm Sewer Extension	\$ 71,800					
Chautauqua and Promenade Park Native Seeding	\$ 7,000					
Cherry Glen Trail Culvert Improvements	\$ 14,500					
NW Eden Lane Storm Sewer Intake Repairs	\$ 14,350					
Tradition Park Detention Basin Outlet Repairs	\$ 2,015					
Westwinds Storm Sewer Geotechnical Exploration	\$ 4,500					
Diamond Hills Greenway Stream Repairs		\$ 275,000				
NW 18th Street Storm Sewer Intake Improvements		\$ 50,000				
West 1st Street Basin Structure Repairs		\$ 15,000				
SW Ankeny Road Culvert Repairs		\$ 20,000				
Storm Water Conservation Design Features within City Property		\$ 10,000				
Storm Water Projects (TBD)		\$ 30,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000
Total Project Expenditures	\$ 556,986	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000
Remaining Cash Balance	\$ 453,919	\$ 353,919	\$ 303,919	\$ 303,919	\$ 303,919	\$ 303,919

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2026

	<u>Projected</u> <u>2021</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>Annual Pavement Preservation Program</u>						

	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026
Beginning Cash Balance	\$ 169,887	\$ 9,184	\$ 9,184	\$ 9,184	\$ 9,184	\$ 9,184
Transfers In						
General Obligation Bonds	\$ 250,000	\$ 350,000	\$ -	\$ 750,000	\$ -	\$ 750,000
Total Transfers In	\$ 250,000	\$ 350,000	\$ -	\$ 750,000	\$ -	\$ 750,000
Project Expenditures						
2020 Pavement Preservation Program	\$ 71,788					
2021 Pavement Preservation Program	\$ 338,915					
2022 Pavement Preservation Program		\$ 350,000				
2024 Pavement Preservation Program				\$ 750,000		
2026 Pavement Preservation Program						\$ 750,000
Total Project Expenditures	\$ 410,703	\$ 350,000	\$ -	\$ 750,000	\$ -	\$ 750,000
Remaining Cash Balance	\$ 9,184	\$ 9,184	\$ 9,184	\$ 9,184	\$ 9,184	\$ 9,184

<u>Annual Street Replacement Program</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>
Beginning Cash Balance	\$ 739,639	\$ 870,456	\$ 370,456	\$ 370,456	\$ 370,456	\$ 370,456
Transfers In						
General Obligation Bonds			\$ 700,000	\$ 1,350,000	\$ 500,000	\$ 1,500,000
Road Use Tax Fund	\$ 1,025,000	\$ 1,000,000	\$ 500,000		\$ 1,000,000	
Total Transfers In	\$ 1,025,000	\$ 1,000,000	\$ 1,200,000	\$ 1,350,000	\$ 1,500,000	\$ 1,500,000
Project Expenditures						
SE 8th Street - SE Oak Drive to SE Sharon Drive	\$ 36,114					
SE 8th Street - South Ankeny Boulevard to SE Oak Drive	\$ 834,070					
Manhole Boxout Replacement	\$ 24,000					
SE Peachtree Drive - SE Magnolia Drive to SE Oralabor Road		\$ 750,000				
NW 5th Street - NW Greenwood Street to NW Applewood Street		\$ 650,000				
SE Creekview Drive - SE Oralabor Road to SE Tones Drive		\$ 100,000	\$ 650,000			
SE 8th Street - SE Rio Circle to SE Wanda Drive			\$ 550,000			
NW Westwood Street - NW 5th Street to NW 9th Street				\$ 750,000		
NW Ash Drive - Prairie Ridge Sports Complex Access Drive to NW 18th Street				\$ 600,000		
Street Replacement (TBD)					\$ 1,500,000	\$ 1,500,000
Total Project Expenditures	\$ 894,184	\$ 1,500,000	\$ 1,200,000	\$ 1,350,000	\$ 1,500,000	\$ 1,500,000
Remaining Cash Balance	\$ 870,456	\$ 370,456	\$ 370,456	\$ 370,456	\$ 370,456	\$ 370,456

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>
Beginning Cash Balance	\$ 417,400	\$ 125,910	\$ 125,910	\$ 125,910	\$ 125,910	\$ 125,910
<u>Transfers In</u>						
General Obligation Bonds	\$ 1,015,000	\$ 950,000	\$ 1,065,000	\$ 1,020,000	\$ 890,000	\$ 890,000
Road Use Tax Fund	\$ 500,000	\$ 130,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000
Total Transfers In	\$ 1,515,000	\$ 1,080,000	\$ 1,175,000	\$ 1,130,000	\$ 1,000,000	\$ 1,000,000
<u>Project Expenditures</u>						
NE 18th Street and NE Trilein Drive Signal and Fiber Optic Upgrade	\$ 2,923					
East 1st Street Fiber Optic Upgrade	\$ 12,296					
New Public Services Building Fiber Optic Upgrade	\$ 19,873					
High Trestle Trail Crossing at NW State Street HAWK Signal and Fiber Optic Connection	\$ 121,903					
SE Delaware Avenue and SE 8th Street Signal, Left Turn Lanes and Fiber Optic Connection	\$ 1,077,157	\$ 140,000				
North Ankeny Boulevard and NE 54th Street Signal and Left Turn Lanes	\$ 158,690					
SE Corporate Woods Drive and SE Convenience Boulevard Signal and Lane Modifications Cost Share	\$ 200,000					
NE 36th Street and NE Otterview Circle Signal Cost Share	\$ 150,000					
SE Delaware Avenue and SE Magazine Road Traffic Detection Replacement	\$ 15,264					
2022 Fiber Optic Cable	\$ 48,384					
North Ankeny Boulevard Fiber Optic Upgrade - 1st Street to 18th Street		\$ 260,000				
SE Quadrant Fiber Optic Upgrade, Phase 1 - Public Works Maintenance Facility to Gay Lea Wilson Trail		\$ 135,000				
SW Oralabor Road and SW Irvinedale Drive Safety Improvements		\$ 35,000				

<u>Annual Water Main Replacement Program</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>
Beginning Cash Balance	\$ 712,211	\$ 625,381	\$ 1,010,381	\$ 985,381	\$ 1,025,381	\$ 1,005,381
Transfers In						
Water Fund	\$ 500,000	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Special Assessments Fund - Close Project Fund	\$ 96,498					
Total Transfers In	\$ 596,498	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Project Expenditures						
Water Main Oversizing	\$ 9,611	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
SE 8th Street - SE Sharon Drive to South Ankeny Boulevard Water Main Improvements	\$ 150,000					
SE Eastlawn Area Utility Improvements	\$ 64,039					
NW Northlawn Area Utility Improvements	\$ 459,677	\$ 15,000	\$ 525,000	\$ 435,000	\$ 470,000	
Original Ankeny Area Utility Improvements				\$ 25,000	\$ 50,000	\$ 550,000
Total Project Expenditures	\$ 683,327	\$ 115,000	\$ 625,000	\$ 560,000	\$ 620,000	\$ 650,000
Remaining Cash Balance	\$ 625,381	\$ 1,010,381	\$ 985,381	\$ 1,025,381	\$ 1,005,381	\$ 955,381

		2022-2026 Capital Improvement Program												
		Overall Project Listing with 10-Year High Priority Projects												
2022 Map I.D.	2023 Map I.D.	Proposed Projects		High Priority Projects										Project Cost
			Project No.	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
ANNUAL PROGRAMS														
1	A	Annual Park Development Program	PRK-00-002	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 3,850,000
		Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	4,500,000
2	B	Annual Sanitary Sewer Replacement Program	SNS-00-001	750,000	630,000	1,165,000	625,000	1,255,000	655,000	1,255,000	655,000	1,255,000	655,000	8,900,000
3		Annual Storm Water Replacement Program	STM-00-001	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	4,000,000
2	B	Annual PCC Street Patching Program	STR-00-001	765,000	1,325,000	1,310,000	1,420,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	13,820,000
4		Annual Asphalt Street Resurfacing Program	STR-00-002	340,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,040,000
		Annual Pavement Preservation Program	STR-00-003	350,000		750,000		750,000		750,000		750,000		3,350,000
5 & 6	C & D	Annual Street Replacement Program	STR-00-004	1,500,000	1,200,000	1,350,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	14,550,000
7, 8 & 9	E & F	Annual Traffic Signal Improvement Program	TRF-00-001	1,080,000	1,175,000	1,130,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,385,000
2	B	Annual Water Main Replacement Program	WTM-00-001	115,000	625,000	560,000	620,000	650,000	650,000	650,000	650,000	650,000	650,000	5,820,000
BUILDINGS														
		Fire Station No. 4	BLD-20-002	150,000		500,000	4,900,000							5,550,000
		Lakeside Center Renovations	BLD-21-001	50,000	250,000									300,000
	G	Public Works Winter Operations Satellite Facility	BLD-21-002	40,000	420,000									460,000
		Public Safety Training Facility	BLD-22-001						1,147,700					1,147,700
		Community Entrance Signs	Buildings						50,000	85,000	85,000	85,000		305,000
		Sewer Treatment Plant Demolition and Repurposing	Buildings						165,000	1,650,000				1,815,000
BRIDGES														
10		NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	1,313,000										1,313,000
		SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001			325,000								325,000
		NE Frisk Drive Bridge over Deer Creek	BRG-22-001		90,000									90,000
		NE 18th Street Bridge over Interstate 35	BRG-22-002			50,000	50,000	450,000	2,200,000	4,800,000	5,000,000			12,550,000
		NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003				100,000	1,025,000						1,125,000
		NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004					100,000	850,000					950,000
		Interstate 35 and NE 54th Street Overpass Justification Report	Bridges						150,000					150,000
		Corporate Woods Drive Railroad Overpass	Bridges							750,000	7,500,000			8,250,000
		Interstate 35 and SE Oralabor Road Interchange Upgrade Justification Report	Bridges								200,000			200,000
PARKS														
11	H	Des Moines Street Parks Development	PRK-21-002	450,000	565,000	880,000		575,000						2,470,000
		Miracle Park Wheelchair Swing	PRK-22-002	80,000										80,000
		Prairie Ridge Sports Complex - Softball Bleacher Canopies	PRK-22-003	150,000										150,000
12		High Trestle Trail Experience Park	PRK-22-005	400,000										400,000
13		Cherry Glen Ballfield	PRK-22-006	500,000										500,000
		Hawkeye Park Sports Complex - Tennis Courts Reconstruction	PRK-18-003						715,000					715,000
		Hawkeye Park Sports Complex - Pickleball Courts	PRK-20-004						380,000					380,000
		Mini-Pitch Soccer Systems	PRK-22-001						200,000	200,000				400,000
		Outdoor Fitness Court	PRK-22-004						185,000					185,000
		Heritage Park Expansion and Upgrades	Parks						50,000	650,000				700,000
		Chautauqua and Promenade Park Development	Parks						300,000	3,000,000	300,000	3,000,000		6,600,000
		Watercrest Community Park Expansion	Parks						200,000	2,000,000				2,200,000

		2022-2026 Capital Improvement Program Overall Project Listing with 10-Year High Priority Projects												
2022 Map I.D.	2023 Map I.D.	Proposed Projects							High Priority Projects					Project Cost
			Project No.	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
SIDEWALKS/TRAILS														
		High Trestle Trail Extension - SE Magazine Road to SE Oralabor Road	SDW-16-001	100,000										100,000
	I	Oralabor Gateway Trail - SW State Street Grade-Separated Crossing	SDW-19-001	185,000	1,875,000									2,060,000
14		Rock Creek Trail and Native Plantings	SDW-21-001	380,000										380,000
	J	Clover Ridge Trail	SDW-21-002		85,000									85,000
		SW Ankeny Road Sidewalk Improvements	SDW-22-001						125,000	705,000				830,000
		Safe Routes to School Study Update and Improvements	Trails						100,000	250,000	250,000			600,000
		Hidden Creek Trail Extension - NW 5th Street to NW 13th Street	Trails						90,000	900,000				990,000
		SW Oralabor Road and South Ankeny Boulevard Regional Trail Overpass	Trails							200,000	2,000,000			2,200,000
		Four Mile Creek Trail - NE 47th Street to NE 54th Street	Trails							50,000	500,000			550,000
		Oralabor Gateway Trail - SW White Birch Drive Grade-Separated Crossing	Trails								200,000	2,000,000		2,200,000
SANITARY SEWERS														
15		Otter Creek Trunk Sewer - Phase 3	SNS-11-001	685,000										685,000
		Otter Creek Trunk Sewer - Phase 4	SNS-12-001		210,000	1,215,000								1,425,000
	K	Four Mile Creek Trunk Sewer	SNS-20-001	190,000	1,960,000									2,150,000
16	L	SE 3rd Street Trunk Sewer Extension	SNS-20-002	890,000	870,000									1,760,000
		Canyon Landing Sanitary Sewer Cost Share - Phase 2	SNS-21-001	493,351										493,351
17		Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	600,000										600,000
	M	NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	38,200	381,810									420,010
		Clover Ridge Trunk Sewer Extension	SNS-22-003			66,100	597,910							664,010
		Polk County Lift Station Decommissioning	SNS-22-004				81,650	893,350						975,000
STORM WATER														
		Sawgrass Park Dam Improvements	STM-19-004			85,000	405,000							490,000
		Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	20,000	45,000	435,000								500,000
18		High Trestle Trail Channel Stabilization - Phase 1	STM-20-002	275,000										275,000
	N	High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	50,000	490,000									540,000
		Tributary to Four Mile Creek Channel Stabilization	STM-20-004	40,000	270,000	2,280,000								2,590,000
		Westlawn Area Storm Sewer Improvements	STM-20-005			35,000	300,000	1,625,000	1,625,000					3,585,000
19	O	SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	1,220,000	1,175,000									2,395,000
		SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001		160,000	1,310,000	1,240,000							2,710,000
20		Westwinds Storm Sewer Extension	STM-21-002	190,000										190,000
	P	SE Creekview Drive Wetland	STM-22-001	150,000	750,000									900,000
		Diamond Hills Greenway Stream Stabilization	STM-22-002				30,000	120,000	1,250,000					1,400,000
		Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003					30,000	180,000	1,700,000				1,910,000
		Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004					20,000	40,000	325,000				385,000
		Saylor Creek Tributary Channel Improvements	STM-22-005					60,000	360,000	3,400,000				3,820,000
STREETS														
	Q	NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	700,000	4,075,000	5,200,000	125,000							10,100,000

		2022-2026 Capital Improvement Program												
		Overall Project Listing with 10-Year High Priority Projects												
2022 Map I.D.	2023 Map I.D.	Proposed Projects		High Priority Projects										Project Cost
			Project No.	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
22		SE Crosswinds Drive/SE 77th Street Improvements - Phase 2	STR-19-008	2,584,000										2,584,000
23		NW 36th Street and NW State Street Interim Improvements	STR-20-003	785,000										785,000
	S	NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	305,000	2,775,000									3,080,000
24		NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	4,225,000	75,000									4,300,000
25		SE Delaware Avenue Widening	STR-20-006	1,000,000										1,000,000
	T	SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	200,000	2,110,000									2,310,000
	U	SW State Street Reconstruction - SW Ordnance Road to West 1st Street (Southbound Lanes)	STR-21-001	75,000	1,425,000									1,500,000
		NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004		75,000	350,000	3,235,000							3,660,000
		South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005			50,000	175,000	235,000	2,250,000					2,710,000
		Uptown Parking Improvements	STR-21-006	180,000										180,000
26		NE 36th Street Reconstruction - Interstate 35 to NE Four Mile Drive	STR-22-001	5,672,000										5,672,000
		NW Weigel Drive Asphalt Overlay - NW 18th Street to NW 36th Street	STR-22-002			125,000	1,185,000							1,310,000
		West 1st Street Widening and Improvements - Phase 2	STR-22-003			500,000	1,650,000	3,925,000	3,925,000					10,000,000
		NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004				100,000	305,000	3,105,000					3,510,000
		NE Delaware Avenue Reconstruction - NE 18th Street to NE 36th Street	Streets						500,000	3,500,000	4,000,000			8,000,000
		NW State Street Extension to NW Irvinedale Drive	Streets						600,000	6,000,000	6,000,000			12,600,000
		NW 36th Street Widening - NW Abilene Road to NW Ash Drive	Streets							500,000	4,500,000	4,000,000		9,000,000
		NW 36th Street Reconstruction - NW Weigel Drive to NW Irvinedale Drive	Streets								900,000	7,000,000		7,900,000
		East 1st Street Widening - NE Frisk Drive to NE Four Mile Drive	Streets								800,000	6,500,000		7,300,000
TRAFFIC														
		Interstate 35 and SE Corporate Woods Drive Interchange Justification Report	TRF-21-001		100,000									100,000
		Elementary Schools Walkability Improvements	TRF-22-001	125,000										125,000
		GPS Opticom Upgrade	TRF-22-003						808,657					808,657
WATER														
27		High Trestle Trail Transmission Main - Phase 1	WTM-17-001	2,365,000										2,365,000
28		Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	625,000										625,000
		Saylorville Feeder Main Purchase Capacity	WTM-17-008			701,000								701,000
	V	South Ankeny Boulevard Transmission Main	WTM-18-001	235,000	2,390,000									2,625,000
		South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001			112,000	1,447,330							1,559,330
		NW State Street Water Main Improvements	WTM-19-003					120,000	1,205,000					1,325,000
29		NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,270,655										1,270,655
		SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002				110,000	1,319,870						1,429,870
	W	High Trestle Trail Transmission Main - Phase 2	WTM-21-001	178,000	1,926,000									2,104,000
		Centennial Estates Water Main Cost Share	WTM-22-001	145,000										145,000
		North Ankeny Boulevard Water Main - NE 41st Street to Unity Point	WTM-22-002	175,000										175,000
		NE 36th Street and NE 38th Street Water Main Loop	WTM-22-003		212,885	2,315,000								2,527,885
30		Aquifer Storage and Recovery Well No. 1 Replacement	WTT-17-002	7,150,000										7,150,000
	X	Northwest Water Tower	WTT-19-002	350,000	7,150,000									7,500,000
		SE Delaware Ground Storage Tank Repaint	WTT-20-001		300,000									300,000
		SE Magazine Ground Storage Tank Repaint	WTT-20-002			400,000								400,000
			Year Totals	\$ 46,119,206	\$ 38,955,695	\$ 26,264,100	\$ 25,526,890	\$ 27,993,220	\$ 30,571,357	\$ 44,855,000	\$ 39,075,000	\$ 30,775,000	\$ 6,840,000	\$ 316,975,468

Section 2

City of Ankeny, Iowa

Financial Planning for Capital Projects

Projection of Tax Levies & Tax Rate Impact

EXHIBIT 1

FY23 Pre-Levy => 3,704,014

Projected Debt Service Levy Impact	
Tax Impact for FY 19-20:	(\$0.25)
Tax Impact for FY 20-21:	(\$0.25)
Tax Impact for FY 21-22:	(\$0.05)
Tax Impact for FY 22-23:	(\$0.15)

								Total Resources	Par	\$10,060,000	\$10,300,000	\$10,755,000	\$11,300,000	\$13,130,000					Total Uses	Surplus/ (Deficit)	Ending Cash/Fund Balance
									Proceeds	\$9,931,000	\$10,160,000	\$10,607,500	\$11,092,500	\$12,960,000	Estimated						
Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/ TIF Abatement	Misc Income	Property Tax Backfill		Existing GO Debt	2022 CIP-Taxes	2023 CIP-Taxes	2024 CIP-Taxes	2025 CIP-Taxes	2026 CIP-Taxes	Future GO Bonds	Bond Fees	Other Uses				
2016 - 2017	2,897,767,321	10.9%	12,315,511	\$4.2500	8,945,811	10,898	372,182	21,644,402	21,641,816						7,000	(4,299)	21,644,516	(114)	2,928,500		
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	26,000	322,211	23,433,114	23,356,250						7,400		23,363,650	69,464	1,738,421		
2022 - 2023	4,828,710,703	8.4%	14,727,568	\$3.0500	8,795,636	26,000	241,658	23,790,862	20,161,844	3,503,458					8,000	199,956	23,873,258	(82,396)	1,656,026		
2023 - 2024	5,088,735,772	5.4%	15,520,644	\$3.0500	8,687,074	26,000	181,244	24,414,961	18,126,444	2,038,000	4,174,194				8,000	204,500	24,551,138	(136,177)	1,519,849		
2024 - 2025	5,062,636,904	(0.5%)	15,441,043	\$3.0500	7,316,163	26,000	120,829	22,904,034	16,482,344	757,600	2,320,506	3,393,573			8,000		22,962,023	(57,989)	1,461,860		
2025 - 2026	5,299,644,952	4.7%	16,163,917	\$3.0500	6,887,931	26,000	60,415	23,138,263	15,826,150	760,600	715,506	4,017,725	1,822,738		8,000		23,150,719	(12,456)	1,449,404		
2026 - 2027	5,300,995,777	0.0%	16,168,037	\$3.0500	6,401,606	26,000		22,595,643	14,834,863	762,600	712,231	2,004,825	2,519,550	1,755,774	8,000		22,597,843	(2,199)	1,447,205		
2027 - 2028	5,552,270,394	4.7%	16,934,425	\$3.0500	5,239,138	26,000		22,199,562	13,085,144	758,600	713,006	419,325	2,866,400	2,763,650	1,591,314	8,000		22,205,439	(5,876)	1,441,329	

Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

Outstanding Debt

Issue Date	Maturity Date	Outstanding Debt
05/29/14	06/01/29	\$ 8,910,000
05/29/14	06/01/29	7,600,000
12/22/14	06/01/28	12,725,000
05/28/15	06/01/25	3,020,000
05/28/15	06/01/24	805,000
03/31/16	06/01/28	5,085,000
05/25/16	06/01/26	4,435,000
05/31/17	06/01/27	5,740,000
05/30/18	06/01/28	10,815,000
05/28/19	06/01/29	14,935,000
06/09/20	06/01/30	12,530,000
06/09/21	06/01/31	25,045,000
Rebate & Lease Agreements		7,127,089
Total Outstanding Debt		\$ 118,772,089

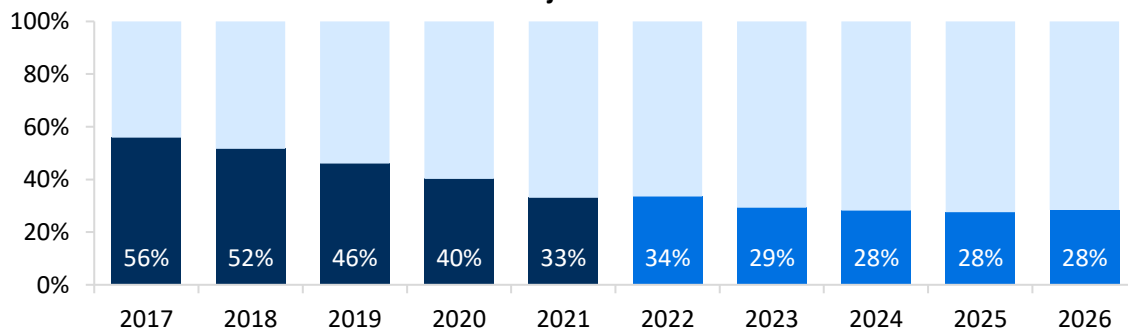
Projected Debt

Bond Year	Debt Addition	Debt Reduction	Change in Rebates	Net Change	Projected Outstanding Debt
2022	\$ 18,910,000	\$ 18,650,000	\$ -	\$ 260,000	\$ 119,032,089
2023	13,400,000	16,325,000	(355,239)	(3,280,239)	115,751,850
2024	15,170,000	15,025,000	(724,684)	(579,684)	115,172,166
2025	14,930,000	14,005,000	(645,630)	279,370	115,451,536
2026	21,715,000	13,950,000	(1,212,883)	6,552,117	122,003,653

Calculation of Legal Debt Limit

FY	Assessed Value	Debt Limit Value (5%)	Projected Outstanding Debt	Unused Debt Limit	% of Debt Limit Used
2022	7,092,010,544	\$ 354,600,527	\$ 119,032,089	\$ 235,568,438	34%
2023	7,916,335,277	395,816,764	115,751,850	280,064,914	29%
2024	8,174,379,468	408,718,973	115,172,166	293,546,807	28%
2025	8,378,270,954	418,913,548	115,451,536	303,462,012	28%
2026	8,588,279,184	429,413,959	122,003,653	307,410,306	28%

Historical and Projected Use of Debt Limit



Section 3

City of Ankeny, Iowa
2022 - 2026 Capital Improvement Program
2022 thru 2026

CATEGORY SUMMARY

Category	2022	2023	2024	2025	2026	Total
Bridge/Box Culvert	1,313,000	90,000	375,000	150,000	1,575,000	3,503,000
Municipal Buildings	240,000	670,000	500,000	4,900,000		6,310,000
Park Facilities	1,965,000	950,000	1,265,000	385,000	960,000	5,525,000
Sanitary Sewers	3,646,551	4,051,810	2,446,100	1,304,560	2,148,350	13,597,371
Sidewalks/Trails	1,115,000	2,410,000	450,000	450,000	450,000	4,875,000
Storm Water	2,345,000	3,290,000	4,545,000	2,375,000	2,255,000	14,810,000
Streets and Alleys	21,681,000	13,615,000	11,465,000	12,785,000	17,515,000	77,061,000
Traffic Control	1,205,000	1,275,000	1,130,000	1,000,000	1,000,000	5,610,000
Water Mains	5,108,655	5,153,885	3,688,000	2,177,330	2,089,870	18,217,740
Water Towers/Storage	7,500,000	7,450,000	400,000			15,350,000
TOTAL	46,119,206	38,955,695	26,264,100	25,526,890	27,993,220	164,859,111

City of Ankeny, Iowa
2022 - 2026 Capital Improvement Program
2022 thru 2026

PROJECTS BY CATEGORY

Category	Project #	2022	2023	2024	2025	2026	Total
Bridge/Box Culvert							
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	1,313,000					1,313,000
SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001			325,000			325,000
NE Frisk Drive Bridge over Deer Creek	BRG-22-001		90,000				90,000
NE 18th Street Bridge over Interstate 35	BRG-22-002			50,000	50,000	450,000	550,000
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003				100,000	1,025,000	1,125,000
NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004					100,000	100,000
Bridge/Box Culvert Total		1,313,000	90,000	375,000	150,000	1,575,000	3,503,000
Municipal Buildings							
Fire Station No. 4	BLD-20-002	150,000		500,000	4,900,000		5,550,000
Lakeside Center Renovation	BLD-21-001	50,000	250,000				300,000
Public Works Winter Operations Satellite Facility	BLD-21-002	40,000	420,000				460,000
Municipal Buildings Total		240,000	670,000	500,000	4,900,000		6,310,000
Park Facilities							
Annual Park Development Program	PRK-00-002	385,000	385,000	385,000	385,000	385,000	1,925,000
Des Moines Street Parks Development	PRK-21-002	450,000	565,000	880,000		575,000	2,470,000
Miracle Park Wheelchair Swing	PRK-22-002	80,000					80,000
Prairie Ridge Sports Complex-SB Bleacher Canopies	PRK-22-003	150,000					150,000
High Trestle Trail Experience Park	PRK-22-005	400,000					400,000
Cherry Glen Ballfield	PRK-22-006	500,000					500,000
Park Facilities Total		1,965,000	950,000	1,265,000	385,000	960,000	5,525,000
Sanitary Sewers							
Annual Sanitary Sewer Replacement Program	SNS-00-001	750,000	630,000	1,165,000	625,000	1,255,000	4,425,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001	685,000					685,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001		210,000	1,215,000			1,425,000
Four Mile Creek Trunk Sewer	SNS-20-001	190,000	1,960,000				2,150,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	890,000	870,000				1,760,000
Canyon Landing Sanitary Sewer Cost Share-Phase 2	SNS-21-001	493,351					493,351
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	600,000					600,000
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	38,200	381,810				420,010
Clover Ridge Trunk Sewer Extension	SNS-22-003			66,100	597,910		664,010
Polk County Lift Station Decommissioning	SNS-22-004				81,650	893,350	975,000
Sanitary Sewers Total		3,646,551	4,051,810	2,446,100	1,304,560	2,148,350	13,597,371
Sidewalks/Trails							
Annual Sidewalk/Trail Construction Program	SDW-00-001	450,000	450,000	450,000	450,000	450,000	2,250,000
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	100,000					100,000
Oralabor Gateway Trail-State St Separated Crossing	SDW-19-001	185,000	1,875,000				2,060,000
Rock Creek Trail and Native Plantings	SDW-21-001	380,000					380,000
Clover Ridge Trail	SDW-21-002		85,000				85,000

Category	Project #	2022	2023	2024	2025	2026	Total
Sidewalks/Trails Total		1,115,000	2,410,000	450,000	450,000	450,000	4,875,000
Storm Water							
Annual Storm Water Replacement Program	STM-00-001	400,000	400,000	400,000	400,000	400,000	2,000,000
Sawgrass Park Dam Improvements	STM-19-004			85,000	405,000		490,000
Four Mile Creek Channel Stabilization-NE 47th St	STM-20-001	20,000	45,000	435,000			500,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002	275,000					275,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003	50,000	490,000				540,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	40,000	270,000	2,280,000			2,590,000
Westlawn Area Storm Sewer Improvements	STM-20-005			35,000	300,000	1,625,000	1,960,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	1,220,000	1,175,000				2,395,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001		160,000	1,310,000	1,240,000		2,710,000
Westwinds Storm Sewer Extension	STM-21-002	190,000					190,000
SE Creekview Drive Wetland	STM-22-001	150,000	750,000				900,000
Diamond Hills Greenway Stream Stabilization	STM-22-002				30,000	120,000	150,000
Four Mile Creek Channel Stabilization-E 1st Street	STM-22-003					30,000	30,000
Four Mile Creek Channel Stabilization-NE 36th St	STM-22-004					20,000	20,000
Saylor Creek Tributary Channel Improvements	STM-22-005					60,000	60,000
Storm Water Total		2,345,000	3,290,000	4,545,000	2,375,000	2,255,000	14,810,000
Streets and Alleys							
Annual PCC Street Patching Program	STR-00-001	765,000	1,325,000	1,310,000	1,420,000	1,500,000	6,320,000
Annual Asphalt Street Resurfacing Program	STR-00-002	340,000	300,000	300,000	300,000	300,000	1,540,000
Annual Pavement Preservation Program	STR-00-003	350,000		750,000		750,000	1,850,000
Annual Street Replacement Program	STR-00-004	1,500,000	1,200,000	1,350,000	1,500,000	1,500,000	7,050,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	700,000	4,075,000	5,200,000	125,000		10,100,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003			100,000	400,000	3,500,000	4,000,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	3,000,000					3,000,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001		80,000	1,190,000	375,000		1,645,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			150,000	525,000	5,450,000	6,125,000
NW 18th Street Extension-Spruce to Highway 415	STR-18-004					50,000	50,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005				875,000		875,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004			90,000	920,000		1,010,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006		175,000				175,000
SE Crosswinds Dr/SE 77th St Improvements-Phase 2	STR-19-008	2,584,000					2,584,000
NW 36th St and NW State St Interim Improvements	STR-20-003	785,000					785,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004	305,000	2,775,000				3,080,000
NW 36th Street Widening-Ash to Ankeny Blvd	STR-20-005	4,225,000	75,000				4,300,000
SE Delaware Avenue Widening	STR-20-006	1,000,000					1,000,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008	200,000	2,110,000				2,310,000
SW State Street Reconstruction-Ordnance to 1st St	STR-21-001	75,000	1,425,000				1,500,000
NW Irvinedale Dr and NW 18th St Intersection	STR-21-004		75,000	350,000	3,235,000		3,660,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005			50,000	175,000	235,000	460,000
Uptown Parking Improvements	STR-21-006	180,000					180,000
NE 36th St Reconstruction-I-35 to NE Four Mile Dr	STR-22-001	5,672,000					5,672,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	STR-22-002			125,000	1,185,000		1,310,000
West 1st Street Widening and Improvements-Phase 2	STR-22-003			500,000	1,650,000	3,925,000	6,075,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	STR-22-004				100,000	305,000	405,000
Streets and Alleys Total		21,681,000	13,615,000	11,465,000	12,785,000	17,515,000	77,061,000
Traffic Control							
Annual Traffic Signal Improvement Program	TRF-00-001	1,080,000	1,175,000	1,130,000	1,000,000	1,000,000	5,385,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001		100,000				100,000
Elementary Schools Walkability Improvements	TRF-22-001	125,000					125,000

Category	Project #	2022	2023	2024	2025	2026	Total
Traffic Control Total		1,205,000	1,275,000	1,130,000	1,000,000	1,000,000	5,610,000
Water Mains							
Annual Water Main Replacement Program	WTM-00-001	115,000	625,000	560,000	620,000	650,000	2,570,000
High Trestle Trail Transmission Main-Phase 1	WTM-17-001	2,365,000					2,365,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007	625,000					625,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008			701,000			701,000
South Ankeny Boulevard Transmission Main	WTM-18-001	235,000	2,390,000				2,625,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001			112,000	1,447,330		1,559,330
NW State Street Water Main Improvements	WTM-19-003					120,000	120,000
NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,270,655					1,270,655
SW Walnut Street and SW Ordinance Road Water Main	WTM-20-002				110,000	1,319,870	1,429,870
High Trestle Trail Transmission Main-Phase 2	WTM-21-001	178,000	1,926,000				2,104,000
Centennial Estates Water Main Cost Share	WTM-22-001	145,000					145,000
N Ankeny Blvd Water Main-NE 41st St to Unity Pt	WTM-22-002	175,000					175,000
NE 36th St and NE 38th St Water Main Loop	WTM-22-003		212,885	2,315,000			2,527,885
Water Mains Total		5,108,655	5,153,885	3,688,000	2,177,330	2,089,870	18,217,740
Water Towers/Storage							
Aquifer Storage and Recovery Well #1 Replacement	WTT-17-002	7,150,000					7,150,000
Northwest Water Tower	WTT-19-002	350,000	7,150,000				7,500,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001		300,000				300,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002			400,000			400,000
Water Towers/Storage Total		7,500,000	7,450,000	400,000			15,350,000
GRAND TOTAL		46,119,206	38,955,695	26,264,100	25,526,890	27,993,220	164,859,111

City of Ankeny, Iowa
2022 - 2026 Capital Improvement Program
2022 thru 2026

PROJECTS BY YEAR

Project Name	Department	Project #	Project Cost
2022			
Fire Station No. 4	Administration	BLD-20-002	150,000
Lakeside Center Renovation	Parks and Recreation	BLD-21-001	50,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	385,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	450,000
Miracle Park Wheelchair Swing	Parks and Recreation	PRK-22-002	80,000
Prairie Ridge Sports Complex-SB Bleacher Canopies	Parks and Recreation	PRK-22-003	150,000
High Trestle Trail Experience Park	Parks and Recreation	PRK-22-005	400,000
Cherry Glen Ballfield	Parks and Recreation	PRK-22-006	500,000
Rock Creek Trail and Native Plantings	Parks and Recreation	SDW-21-001	380,000
Public Works Winter Operations Satellite Facility	Public Works	BLD-21-002	40,000
NE Four Mile Drive RCB Culvert for Deer Creek	Public Works	BRG-17-001	1,313,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	450,000
High Trestle Trail Extension-Magazine to Oralabor	Public Works	SDW-16-001	100,000
Oralabor Gateway Trail-State St Separated Crossing	Public Works	SDW-19-001	185,000
Annual PCC Street Patching Program	Public Works	STR-00-001	765,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	340,000
Annual Pavement Preservation Program	Public Works	STR-00-003	350,000
Annual Street Replacement Program	Public Works	STR-00-004	1,500,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	700,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	3,000,000
SE Crosswinds Dr/SE 77th St Improvements-Phase 2	Public Works	STR-19-008	2,584,000
NW 36th St and NW State St Interim Improvements	Public Works	STR-20-003	785,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	305,000
NW 36th Street Widening-Ash to Ankeny Blvd	Public Works	STR-20-005	4,225,000
SE Delaware Avenue Widening	Public Works	STR-20-006	1,000,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	200,000
SW State Street Reconstruction-Ordinance to 1st St	Public Works	STR-21-001	75,000
Uptown Parking Improvements	Public Works	STR-21-006	180,000
NE 36th St Reconstruction-I-35 to NE Four Mile Dr	Public Works	STR-22-001	5,672,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,080,000
Elementary Schools Walkability Improvements	Public Works	TRF-22-001	125,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	750,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	685,000
Four Mile Creek Trunk Sewer	Sewer Utility	SNS-20-001	190,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	890,000
Canyon Landing Sanitary Sewer Cost Share-Phase 2	Sewer Utility	SNS-21-001	493,351
Trestle Ridge Trunk Sewer Cost Share	Sewer Utility	SNS-22-001	600,000
NE Crestmoor Sanitary Sewer Replacement	Sewer Utility	SNS-22-002	38,200
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	400,000
Four Mile Creek Channel Stabilization-NE 47th St	Storm Water Utility	STM-20-001	20,000
High Trestle Trail Channel Stabilization-Phase 1	Storm Water Utility	STM-20-002	275,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	50,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	40,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	1,220,000

Project Name	Department	Project #	Project Cost
Westwinds Storm Sewer Extension	Storm Water Utility	STM-21-002	190,000
SE Creekview Drive Wetland	Storm Water Utility	STM-22-001	150,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	115,000
High Trestle Trail Transmission Main-Phase 1	Water Utility	WTM-17-001	2,365,000
Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	625,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	235,000
NW 36th Street and NW Weigel Drive Water Main Loop	Water Utility	WTM-20-001	1,270,655
High Trestle Trail Transmission Main-Phase 2	Water Utility	WTM-21-001	178,000
Centennial Estates Water Main Cost Share	Water Utility	WTM-22-001	145,000
N Ankeny Blvd Water Main-NE 41st St to Unity Pt	Water Utility	WTM-22-002	175,000
Aquifer Storage and Recovery Well #1 Replacement	Water Utility	WTT-17-002	7,150,000
Northwest Water Tower	Water Utility	WTT-19-002	350,000
Total for 2022			46,119,206

2023

Lakeside Center Renovation	Parks and Recreation	BLD-21-001	250,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	385,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	565,000
Clover Ridge Trail	Parks and Recreation	SDW-21-002	85,000
Public Works Winter Operations Satellite Facility	Public Works	BLD-21-002	420,000
NE Frisk Drive Bridge over Deer Creek	Public Works	BRG-22-001	90,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	450,000
Oralabor Gateway Trail-State St Separated Crossing	Public Works	SDW-19-001	1,875,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,325,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	300,000
Annual Street Replacement Program	Public Works	STR-00-004	1,200,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	4,075,000
North Ankeny Boulevard Median and Landscaping Impr	Public Works	STR-18-001	80,000
SW Oralabor Rd and SW Edgewood Ln Intersection	Public Works	STR-19-006	175,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	2,775,000
NW 36th Street Widening-Ash to Ankeny Blvd	Public Works	STR-20-005	75,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	2,110,000
SW State Street Reconstruction-Ordinance to 1st St	Public Works	STR-21-001	1,425,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	75,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,175,000
I-35 & SE Corp Woods Dr Interchange Justification	Public Works	TRF-21-001	100,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	630,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	210,000
Four Mile Creek Trunk Sewer	Sewer Utility	SNS-20-001	1,960,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	870,000
NE Crestmoor Sanitary Sewer Replacement	Sewer Utility	SNS-22-002	381,810
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	400,000
Four Mile Creek Channel Stabilization-NE 47th St	Storm Water Utility	STM-20-001	45,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	490,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	270,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	1,175,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	160,000
SE Creekview Drive Wetland	Storm Water Utility	STM-22-001	750,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	625,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	2,390,000
High Trestle Trail Transmission Main-Phase 2	Water Utility	WTM-21-001	1,926,000
NE 36th St and NE 38th St Water Main Loop	Water Utility	WTM-22-003	212,885
Northwest Water Tower	Water Utility	WTT-19-002	7,150,000
SE Delaware Ground Storage Tank Repaint	Water Utility	WTT-20-001	300,000
Total for 2023			38,955,695

Project Name	Department	Project #	Project Cost
2024			
Fire Station No. 4	Administration	BLD-20-002	500,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	385,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	880,000
SE Frisk Drive RCB Culvert for Four Mile Creek	Public Works	BRG-20-001	325,000
NE 18th Street Bridge over Interstate 35	Public Works	BRG-22-002	50,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	450,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,310,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	300,000
Annual Pavement Preservation Program	Public Works	STR-00-003	750,000
Annual Street Replacement Program	Public Works	STR-00-004	1,350,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	5,200,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	100,000
North Ankeny Boulevard Median and Landscaping Impr	Public Works	STR-18-001	1,190,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	150,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	90,000
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	50,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	Public Works	STR-22-002	125,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	500,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,130,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,165,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	1,215,000
Clover Ridge Trunk Sewer Extension	Sewer Utility	SNS-22-003	66,100
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	400,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	85,000
Four Mile Creek Channel Stabilization-NE 47th St	Storm Water Utility	STM-20-001	435,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	2,280,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	35,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	1,310,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	560,000
Saylorville Feeder Main Purchase Capacity	Water Utility	WTM-17-008	701,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	112,000
NE 36th St and NE 38th St Water Main Loop	Water Utility	WTM-22-003	2,315,000
SE Magazine Ground Storage Tank Repaint	Water Utility	WTT-20-002	400,000
Total for 2024			26,264,100

2025			
Fire Station No. 4	Administration	BLD-20-002	4,900,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	385,000
NE 18th Street Bridge over Interstate 35	Public Works	BRG-22-002	50,000
NW Reinhart Drive RCB Culvert for Rock Creek	Public Works	BRG-22-003	100,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	450,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,420,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	300,000
Annual Street Replacement Program	Public Works	STR-00-004	1,500,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	125,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	400,000
North Ankeny Boulevard Median and Landscaping Impr	Public Works	STR-18-001	375,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	525,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	875,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	920,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	3,235,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	175,000

Project Name	Department	Project #	Project Cost
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	Public Works	STR-22-002	1,185,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	1,650,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	Public Works	STR-22-004	100,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,000,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	625,000
Clover Ridge Trunk Sewer Extension	Sewer Utility	SNS-22-003	597,910
Polk County Lift Station Decommissioning	Sewer Utility	SNS-22-004	81,650
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	400,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	405,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	300,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	1,240,000
Diamond Hills Greenway Stream Stabilization	Storm Water Utility	STM-22-002	30,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	620,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	1,447,330
SW Walnut Street and SW Ordinance Road Water Main	Water Utility	WTM-20-002	110,000
Total for 2025			25,526,890

2026

Annual Park Development Program	Parks and Recreation	PRK-00-002	385,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	575,000
NE 18th Street Bridge over Interstate 35	Public Works	BRG-22-002	450,000
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	100,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	450,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,500,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	300,000
Annual Pavement Preservation Program	Public Works	STR-00-003	750,000
Annual Street Replacement Program	Public Works	STR-00-004	1,500,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	3,500,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	5,450,000
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	235,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	3,925,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	Public Works	STR-22-004	305,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,000,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,255,000
Polk County Lift Station Decommissioning	Sewer Utility	SNS-22-004	893,350
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	400,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	1,625,000
Diamond Hills Greenway Stream Stabilization	Storm Water Utility	STM-22-002	120,000
Four Mile Creek Channel Stabilization-E 1st Street	Storm Water Utility	STM-22-003	30,000
Four Mile Creek Channel Stabilization-NE 36th St	Storm Water Utility	STM-22-004	20,000
Saylor Creek Tributary Channel Improvements	Storm Water Utility	STM-22-005	60,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	650,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	120,000
SW Walnut Street and SW Ordinance Road Water Main	Water Utility	WTM-20-002	1,319,870
Total for 2026			27,993,220

GRAND TOTAL

164,859,111

City of Ankeny, Iowa
2022 - 2026 Capital Improvement Program
2022 thru **2026**

FUNDING SOURCE SUMMARY

Source	2022	2023	2024	2025	2026	Total
Capital Project Fund	6,451,662	1,375,000	465,000	20,000	605,000	8,916,662
Capital Reserve Fund	50,000	250,000	500,000	4,900,000		5,700,000
Civic Trust Fund	950,000	565,000	880,000		575,000	2,970,000
County Contributions		100,000				100,000
FHWA/IDOT Grants	1,301,000	1,425,000	125,000		500,000	3,351,000
G.O. Bonds	9,931,000	10,160,000	10,607,500	11,092,500	12,960,000	54,751,000
G.O. Bonds - Storm Water Abated	1,395,000	1,740,000	3,745,000	1,575,000	1,455,000	9,910,000
G.O. Bonds - TIF Abated	7,337,000	1,310,000	600,000	2,050,000	7,025,000	18,322,000
General Fund	75,000					75,000
Hotel/Motel Tax Fund	200,000	40,000	532,500	187,500		960,000
IDNR/REAP Grants	200,000					200,000
MPO/STBG Grants	1,265,000	2,550,000	1,500,000			5,315,000
Other Grants	6,244,344	650,000				6,894,344
Park Dedication Fund	80,000	80,000	80,000	80,000	80,000	400,000
Private Contributions	1,648,000					1,648,000
Road Use Tax Fund	2,045,000	1,330,000	360,000	1,360,000	360,000	5,455,000
Sewer Fund	3,003,200	4,051,810	1,981,100	1,304,560	1,593,350	11,934,020
Storm Water Fund	700,000	750,000	800,000	800,000	800,000	3,850,000
Water Fund	115,000	600,000	560,000	600,000	600,000	2,475,000
Water Revenue Bonds	3,128,000	11,978,885	3,528,000	1,557,330	1,439,870	21,632,085
GRAND TOTAL	46,119,206	38,955,695	26,264,100	25,526,890	27,993,220	164,859,111

City of Ankeny, Iowa
2022 - 2026 Capital Improvement Program
2022 thru 2026

PROJECTS BY FUNDING SOURCE

Source	Project #	2022	2023	2024	2025	2026	Total
Capital Project Fund							
Fire Station No. 4	BLD-20-002	150,000					150,000
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	1,047,000					1,047,000
Miracle Park Wheelchair Swing	PRK-22-002	40,000					40,000
Annual Sanitary Sewer Replacement Program	SNS-00-001	150,000		465,000		555,000	1,170,000
Canyon Landing Sanitary Sewer Cost Share-Phase 2	SNS-21-001	493,351					493,351
Annual Storm Water Replacement Program	STM-00-001	100,000	50,000				150,000
Annual Street Replacement Program	STR-00-004	500,000					500,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	700,000	1,300,000				2,000,000
Annual Water Main Replacement Program	WTM-00-001		25,000		20,000	50,000	95,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007	625,000					625,000
NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,270,655					1,270,655
Centennial Estates Water Main Cost Share	WTM-22-001	145,000					145,000
N Ankeny Blvd Water Main-NE 41st St to Unity Pt	WTM-22-002	175,000					175,000
Aquifer Storage and Recovery Well #1 Replacement	WTT-17-002	1,055,656					1,055,656
Capital Project Fund Total		6,451,662	1,375,000	465,000	20,000	605,000	8,916,662
Capital Reserve Fund							
Fire Station No. 4	BLD-20-002			500,000	4,900,000		5,400,000
Lakeside Center Renovation	BLD-21-001	50,000	250,000				300,000
Capital Reserve Fund Total		50,000	250,000	500,000	4,900,000		5,700,000
Civic Trust Fund							
Des Moines Street Parks Development	PRK-21-002	450,000	565,000	880,000		575,000	2,470,000
Cherry Glen Ballfield	PRK-22-006	500,000					500,000
Civic Trust Fund Total		950,000	565,000	880,000		575,000	2,970,000
County Contributions							
SE Creekview Drive Wetland	STM-22-001		100,000				100,000
County Contributions Total			100,000				100,000
FHWA/IDOT Grants							
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		500,000				500,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003					500,000	500,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	250,000					250,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001			125,000			125,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006		75,000				75,000
SE Crosswinds Dr/SE 77th St Improvements-Phase 2	STR-19-008	1,051,000					1,051,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008		800,000				800,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001		50,000				50,000

Source	Project #	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants Total		1,301,000	1,425,000	125,000		500,000	3,351,000
G.O. Bonds							
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	266,000					266,000
SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001			325,000			325,000
NE Frisk Drive Bridge over Deer Creek	BRG-22-001		90,000				90,000
NE 18th Street Bridge over Interstate 35	BRG-22-002			50,000	50,000	450,000	550,000
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003				100,000	1,025,000	1,125,000
Annual Park Development Program	PRK-00-002	305,000	305,000	305,000	305,000	305,000	1,525,000
High Trestle Trail Experience Park	PRK-22-005	200,000					200,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	200,000	200,000	200,000	200,000	200,000	1,000,000
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	100,000					100,000
Oralabor Gateway Trail-State St Separated Crossing	SDW-19-001	185,000	825,000				1,010,000
Rock Creek Trail and Native Plantings	SDW-21-001	180,000					180,000
Clover Ridge Trail	SDW-21-002		85,000				85,000
Annual PCC Street Patching Program	STR-00-001	265,000	1,325,000	1,310,000	1,420,000	1,500,000	5,820,000
Annual Asphalt Street Resurfacing Program	STR-00-002	340,000	300,000	300,000	300,000	300,000	1,540,000
Annual Pavement Preservation Program	STR-00-003	350,000		750,000		750,000	1,850,000
Annual Street Replacement Program	STR-00-004		700,000	1,350,000	500,000	1,500,000	4,050,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		775,000	3,700,000	125,000		4,600,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001		40,000	532,500	187,500		760,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			150,000	525,000	5,450,000	6,125,000
NW 18th Street Extension-Spruce to Highway 415	STR-18-004					50,000	50,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005				875,000		875,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004			90,000	920,000		1,010,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006		100,000				100,000
NW 36th St and NW State St Interim Improvements	STR-20-003	785,000					785,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004	305,000	2,775,000				3,080,000
NW 36th Street Widening-Ash to Ankeny Blvd	STR-20-005	4,225,000	75,000				4,300,000
SE Delaware Avenue Widening	STR-20-006	1,000,000					1,000,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008	200,000					200,000
SW State Street Reconstruction-Ordinance to 1st St	STR-21-001	75,000	1,425,000				1,500,000
NW Irvinedale Dr and NW 18th St Intersection	STR-21-004		75,000	350,000	3,235,000		3,660,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005			50,000	175,000	235,000	460,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	STR-22-002			125,000	1,185,000		1,310,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	STR-22-004				100,000	305,000	405,000
Annual Traffic Signal Improvement Program	TRF-00-001	950,000	1,065,000	1,020,000	890,000	890,000	4,815,000
G.O. Bonds Total		9,931,000	10,160,000	10,607,500	11,092,500	12,960,000	54,751,000
G.O. Bonds - Storm Water Abated							
Sawgrass Park Dam Improvements	STM-19-004			85,000	405,000		490,000
Four Mile Creek Channel Stabilization-NE 47th St	STM-20-001	20,000	45,000	435,000			500,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002	275,000					275,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003	50,000	490,000				540,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	40,000	270,000	2,280,000			2,590,000
Westlawn Area Storm Sewer Improvements	STM-20-005			35,000	300,000	1,225,000	1,560,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	820,000	775,000				1,595,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001		160,000	910,000	840,000		1,910,000
Westwinds Storm Sewer Extension	STM-21-002	190,000					190,000
Diamond Hills Greenway Stream Stabilization	STM-22-002				30,000	120,000	150,000
Four Mile Creek Channel Stabilization-E 1st Street	STM-22-003					30,000	30,000
Four Mile Creek Channel Stabilization-NE 36th St	STM-22-004					20,000	20,000

Source	Project #	2022	2023	2024	2025	2026	Total
Saylor Creek Tributary Channel Improvements	STM-22-005					60,000	60,000
G.O. Bonds - Storm Water Abated Total		1,395,000	1,740,000	3,745,000	1,575,000	1,455,000	9,910,000
G.O. Bonds - TIF Abated							
NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004					100,000	100,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003			100,000	400,000	3,000,000	3,500,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	1,485,000					1,485,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008		1,310,000				1,310,000
Uptown Parking Improvements	STR-21-006	180,000					180,000
NE 36th St Reconstruction-I-35 to NE Four Mile Dr	STR-22-001	5,672,000					5,672,000
West 1st Street Widening and Improvements-Phase 2	STR-22-003			500,000	1,650,000	3,925,000	6,075,000
G.O. Bonds - TIF Abated Total		7,337,000	1,310,000	600,000	2,050,000	7,025,000	18,322,000
General Fund							
Prairie Ridge Sports Complex-SB Bleacher Canopies	PRK-22-003	75,000					75,000
General Fund Total		75,000					75,000
Hotel/Motel Tax Fund							
High Trestle Trail Experience Park	PRK-22-005	200,000					200,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001		40,000	532,500	187,500		760,000
Hotel/Motel Tax Fund Total		200,000	40,000	532,500	187,500		960,000
IDNR/REAP Grants							
Rock Creek Trail and Native Plantings	SDW-21-001	200,000					200,000
IDNR/REAP Grants Total		200,000					200,000
MPO/STBG Grants							
Oralabor Gateway Trail-State St Separated Crossing	SDW-19-001		1,050,000				1,050,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		1,500,000	1,500,000			3,000,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	1,265,000					1,265,000
MPO/STBG Grants Total		1,265,000	2,550,000	1,500,000			5,315,000
Other Grants							
SE Creekview Drive Wetland	STM-22-001	150,000	650,000				800,000
Aquifer Storage and Recovery Well #1 Replacement	WTT-17-002	6,094,344					6,094,344
Other Grants Total		6,244,344	650,000				6,894,344
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							
Miracle Park Wheelchair Swing	PRK-22-002	40,000					40,000

Source	Project #	2022	2023	2024	2025	2026	Total
Prairie Ridge Sports Complex-SB Bleacher Canopies	PRK-22-003	75,000					75,000
SE Crosswinds Dr/SE 77th St Improvements-Phase 2	STR-19-008	1,533,000					1,533,000
Private Contributions Total		1,648,000					1,648,000
Road Use Tax Fund							
Public Works Winter Operations Satellite Facility	BLD-21-002	40,000	420,000				460,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	250,000	250,000	250,000	250,000	250,000	1,250,000
Annual PCC Street Patching Program	STR-00-001	500,000					500,000
Annual Street Replacement Program	STR-00-004	1,000,000	500,000		1,000,000		2,500,000
Annual Traffic Signal Improvement Program	TRF-00-001	130,000	110,000	110,000	110,000	110,000	570,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001		50,000				50,000
Elementary Schools Walkability Improvements	TRF-22-001	125,000					125,000
Road Use Tax Fund Total		2,045,000	1,330,000	360,000	1,360,000	360,000	5,455,000
Sewer Fund							
Annual Sanitary Sewer Replacement Program	SNS-00-001	600,000	630,000	700,000	625,000	700,000	3,255,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001	685,000					685,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001		210,000	1,215,000			1,425,000
Four Mile Creek Trunk Sewer	SNS-20-001	190,000	1,960,000				2,150,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	890,000	870,000				1,760,000
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	600,000					600,000
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	38,200	381,810				420,010
Clover Ridge Trunk Sewer Extension	SNS-22-003			66,100	597,910		664,010
Polk County Lift Station Decommissioning	SNS-22-004				81,650	893,350	975,000
Sewer Fund Total		3,003,200	4,051,810	1,981,100	1,304,560	1,593,350	11,934,020
Storm Water Fund							
Annual Storm Water Replacement Program	STM-00-001	300,000	350,000	400,000	400,000	400,000	1,850,000
Westlawn Area Storm Sewer Improvements	STM-20-005					400,000	400,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	400,000	400,000				800,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001			400,000	400,000		800,000
Storm Water Fund Total		700,000	750,000	800,000	800,000	800,000	3,850,000
Water Fund							
Annual Water Main Replacement Program	WTM-00-001	115,000	600,000	560,000	600,000	600,000	2,475,000
Water Fund Total		115,000	600,000	560,000	600,000	600,000	2,475,000
Water Revenue Bonds							
High Trestle Trail Transmission Main-Phase 1	WTM-17-001	2,365,000					2,365,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008			701,000			701,000
South Ankeny Boulevard Transmission Main	WTM-18-001	235,000	2,390,000				2,625,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001			112,000	1,447,330		1,559,330
NW State Street Water Main Improvements	WTM-19-003					120,000	120,000
SW Walnut Street and SW Ordinance Road Water Main	WTM-20-002				110,000	1,319,870	1,429,870
High Trestle Trail Transmission Main-Phase 2	WTM-21-001	178,000	1,926,000				2,104,000
NE 36th St and NE 38th St Water Main Loop	WTM-22-003		212,885	2,315,000			2,527,885
Northwest Water Tower	WTT-19-002	350,000	7,150,000				7,500,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001		300,000				300,000

Source	Project #	2022	2023	2024	2025	2026	Total
SE Magazine Ground Storage Tank Repaint	WTT-20-002			400,000			400,000
Water Revenue Bonds Total		3,128,000	11,978,885	3,528,000	1,557,330	1,439,870	21,632,085
GRAND TOTAL		46,119,206	38,955,695	26,264,100	25,526,890	27,993,220	164,859,111

Section 4

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 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. The design for the new fire station is currently projected to take place in CY 2024, with construction completed in CY 2025. Occupancy is projected to take place on or about July 1, 2025. The final decision regarding the timing of construction and occupancy of the new building will depend on growth patterns and emergency calls for service.

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	2022	2023	2024	2025	2026	Total
Architect			500,000			500,000
Construction Costs				4,900,000		4,900,000
Land/ROW Acquisition	145,000					145,000
Planning Study	5,000					5,000
Total	150,000		500,000	4,900,000		5,550,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	150,000					150,000
Capital Reserve Fund			500,000	4,900,000		5,400,000
Total	150,000		500,000	4,900,000		5,550,000

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, water/sewer service, 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.

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-20-002

Project Name Fire Station No. 4



city of
Ankeny

bringing it all together

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Renovat ion

Description
<p>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:</p> <ul style="list-style-type: none"> • Ceiling, flooring and lighting finishes • Windows • Additional storage • Landscaping/entrance work • Interior painting • Updated bathrooms • Recreation equipment • Painting of the interior walls

Justification
<p>Although dated, the basic structure of the Lakeside Center is in fair condition. The facility is programmed by the Recreation Division Monday-Thursday and available for community use Friday-Sunday. With the Senior Community Center opening in late 2021, department staff believes that the Lakeside Center 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.</p>

Expenditures	2022	2023	2024	2025	2026	Total
Architect	50,000					50,000
Construction Costs		235,000				235,000
Furniture, Fixtures & Equipment		15,000				15,000
Total	50,000	250,000				300,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Reserve Fund	50,000	250,000				300,000
Total	50,000	250,000				300,000

Budget Impact/Other
<p>Impacts will be minimal. This should be offset by the additional recreational use and facility rentals of the building.</p>

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Winter Operations Satellite Facility

Description

Development of a structure to contain salt and winter operations equipment on the north side of Ankeny. The facility would likely consist of a concrete block building enclosure with 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 location for this facility is not completely determined at this time; however, one possible location is on the 1.6-acre property that will be used for the planned Northwest Water Tower (near the intersection of NW Irvinedale Drive and NW 36th Street).

Justification

The City continues to experience strong residential growth, despite the on-going COVID-19 pandemic. A large percentage of the overall growth is occurring within 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 locations in order to replenish the salt supply in the snow plow trucks.

Expenditures	2022	2023	2024	2025	2026	Total
Architect	35,000					35,000
Construction Costs		420,000				420,000
Planning Study	5,000					5,000
Total	40,000	420,000				460,000

Funding Sources	2022	2023	2024	2025	2026	Total
Road Use Tax Fund	40,000	420,000				460,000
Total	40,000	420,000				460,000

Budget Impact/Other

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

Budget Item s	2022	2023	2024	2025	2026	Total
Maintenance Costs			300	300	300	900
Utilities			200	200	200	600
Total			500	500	500	1,500

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

Project #	BLD-21-002
Project Name	Public Works Winter Operations Satellite Facility



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project # BRG-17-001

Project Name NE Four Mile Drive RCB Culvert for Deer Creek

Description

New reinforced concrete box (RCB) culvert to accommodate future NE Four Mile Drive extension across Deer Creek. The preliminary culvert sizing is a twin, 12 feet (width) x 8 feet (height) x 184 feet (length). Stream mitigation will likely be required with the project. The \$240,000 shown in easements and land is for the additional dirt work that the City will be paying based upon the agreement with Deer Creek, LLC.

Justification

The purpose of the project is to construct a new RCB culvert to convey flow from Deer Creek under the future NE Four Mile Drive extension to East 1st Street. The new RCB culvert will support development east of NE Four Mile Drive, between NE 18th Street and East 1st Street, and the NE Four Mile Drive extension will improve traffic mobility east of Interstate 35. Previously, the developer in the area had requested this RCB culvert project be designed in 2017 and constructed in 2018; however, the development has progressed slower than anticipated.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	73,000					73,000
Construction Costs	1,000,000					1,000,000
Land/ROW Acquisition	240,000					240,000
Total	1,313,000					1,313,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	1,047,000					1,047,000
G.O. Bonds	266,000					266,000
Total	1,313,000					1,313,000

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.

City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works

Contact City Engineer

Project # BRG-17-001

Project Name NE Four Mile Drive RCB Culvert for Deer Creek



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 2019 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	2022	2023	2024	2025	2026	Total
Engineering-Construction			50,000			50,000
Services						
Construction Costs			275,000			275,000
Total			325,000			325,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds			325,000			325,000
Total			325,000			325,000

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.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 sidewalk on one side.

Justification

Polk County is planning to replace the bridge on NE Frisk Drive over Deer Creek in 2022 due to its low service rating and currently posted weight restriction. The City has requested additional width on the new bridge in order to accommodate a sidewalk 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 sidewalk. Only the City's cost-share amount is shown in the estimated construction costs.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs		90,000				90,000
Total		90,000				90,000
Funding Sources	2022	2023	2024	2025	2026	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.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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, street lighting, 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 NEPA documentation in 2024 and 2025, topographic survey and preliminary design in early 2026, final design and right-of-way acquisition in late 2026/early 2027, vegetation clearing and embankment work in late 2027, Interstate 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 two separate projects, with the bridge project being an Iowa DOT letting in July 2027 and the roadway project being a local letting in November 2028. The City anticipates applying for STBG funding for the bridge project through the Des Moines Area MPO. It is estimated that the 2029 project costs will be \$5,000,000 (includes \$4.7 million for construction and \$300,000 for 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, along with a potential future elementary school. It is anticipated that the planned Spectrum 36 commercial development located at NE 36th Street 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	2022	2023	2024	2025	2026	Total
Engineering-Design			50,000	50,000	450,000	550,000
Total			50,000	50,000	450,000	550,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds			50,000	50,000	450,000	550,000
Total			50,000	50,000	450,000	550,000

Budget Impact/Other

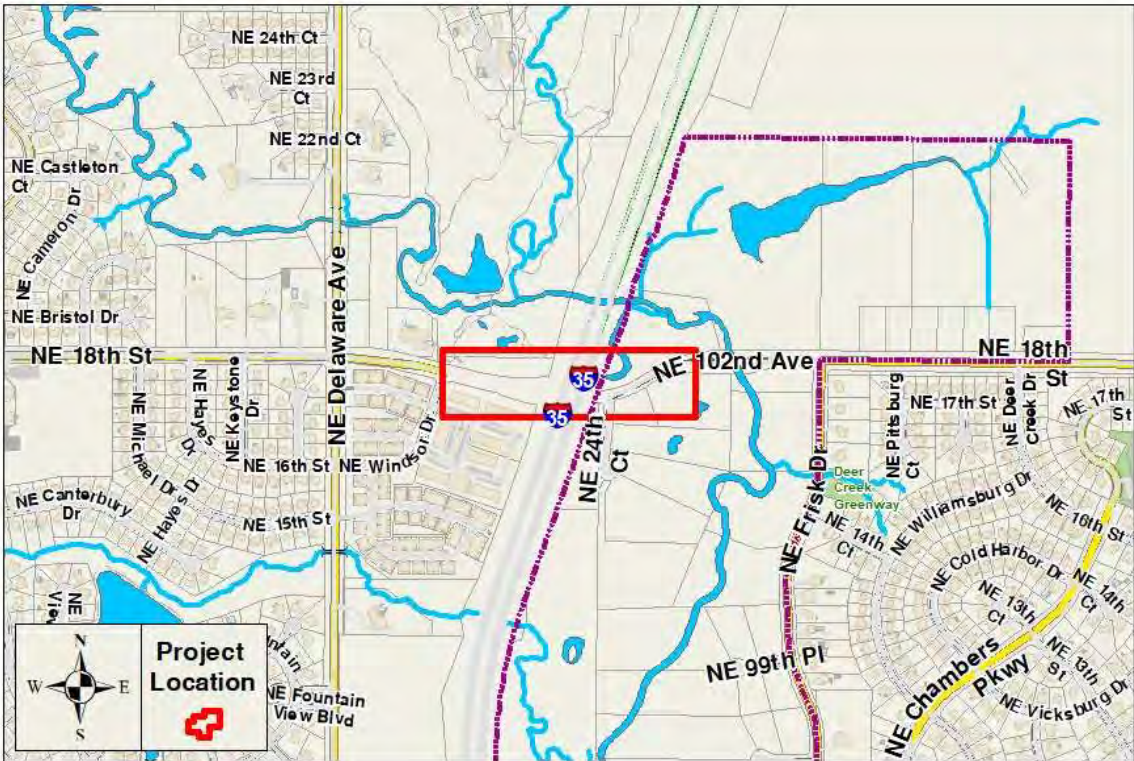
The added public street pavement and 8-ft. sidewalk will increase the maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. The new street lights will result in additional electric power costs for the City.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

Project #	BRG-22-002
Project Name	NE 18th Street Bridge over Interstate 35



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 culvert (RCB) 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 to convey flow from Rock Creek under the future NW Reinhart Drive extension. The new RCB culvert will support development north and west of NW 18th Street and NW Irvinedale Drive. At this time, it is assumed the project's construction will occur in 2026.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design				100,000		100,000
Engineering-Construction Services					75,000	75,000
Construction Costs					950,000	950,000
Total				100,000	1,025,000	1,125,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds				100,000	1,025,000	1,125,000
Total				100,000	1,025,000	1,125,000

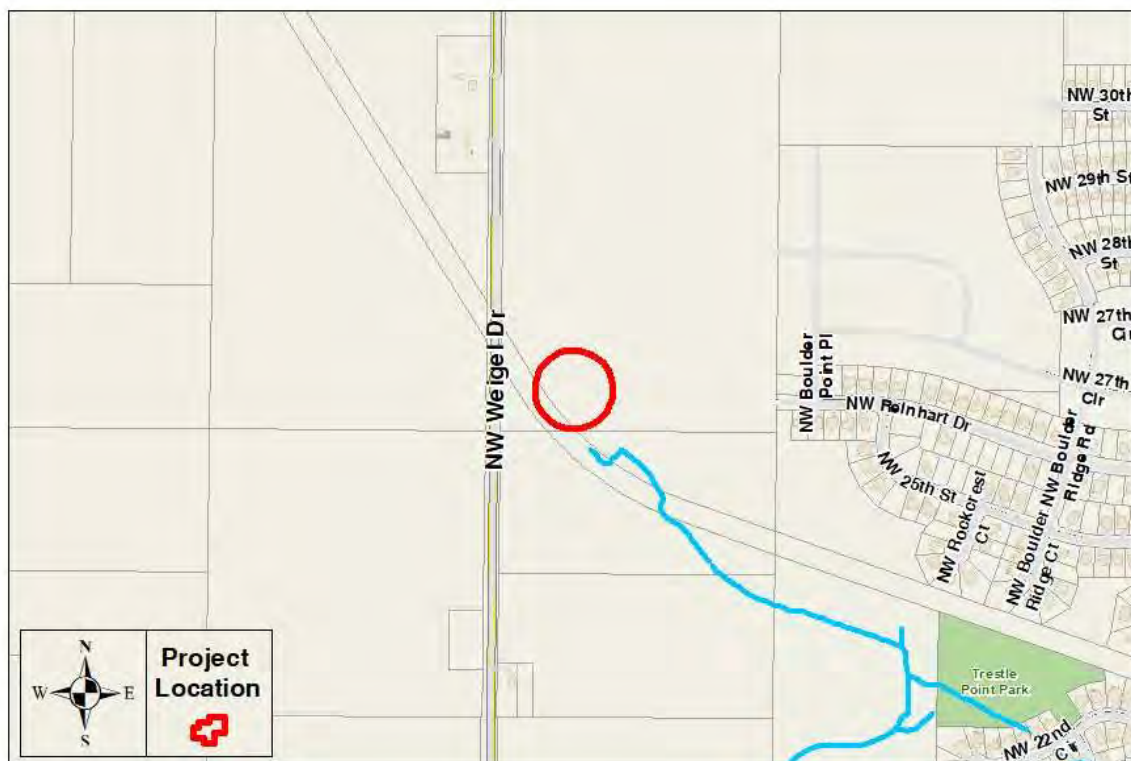
Budget Impact/Other

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.

City of Ankeny, Iowa

Contact City Engineer

Project Name NW Reinhart Drive RCB Culvert for Rock Creek



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 and design 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 to convey flow from Otter Creek under the future NE Spectrum Drive extension. The new RCB culvert will support development east of Interstate 35 from NE 36th Street and north. At this time, it is assumed the project's construction will occur in 2027, and the estimated construction cost is \$850,000.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design					100,000	100,000
Total					100,000	100,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - TIF Abated					100,000	100,000
Total					100,000	100,000

Budget Impact/Other

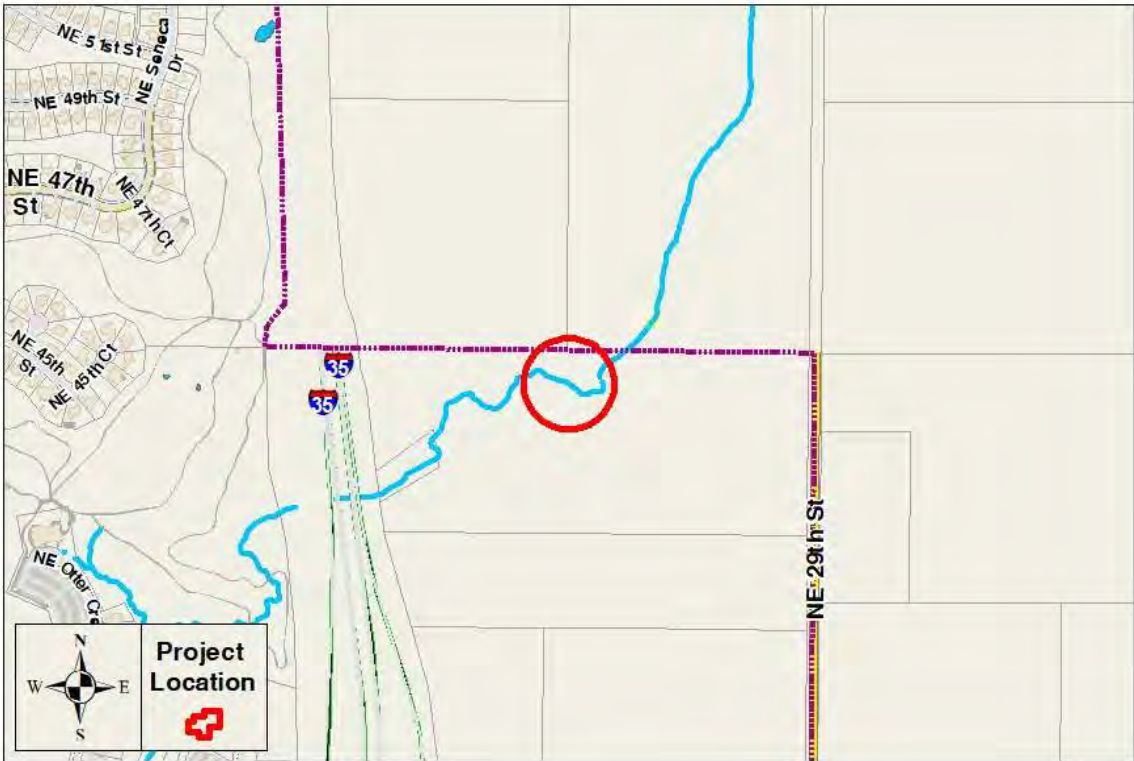
The new RCB culvert will have a negligible impact on the City's maintenance costs. The RCB culvert will be added to the Annual Bridge Inspection Program for monitoring purposes, following construction.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	PRK-00-002
Project Name	Annual Park Development Program

Description
The Annual Park Development Program consists of improvements to existing park facilities or construction of new parks. Improvements include such amenities as shelters, play structures, picnic amenities, landscaping, etc.

Justification
2022 • Bellagio Park Development: playground, trail connection, shelter, etc. 2023 • Aspen Ridge Park Development: playground, trail connection, shelter, etc. 2024 • Watercrest Park Expansion: splash pad, shelter, trail loop, etc. 2025-2026 • Other projects TBD based on park dedication, development funding and pace of development

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	35,000	35,000	35,000	35,000	35,000	175,000
Construction Costs	350,000	350,000	350,000	350,000	350,000	1,750,000
Total	385,000	385,000	385,000	385,000	385,000	1,925,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	305,000	305,000	305,000	305,000	305,000	1,525,000
Park Dedication Fund	80,000	80,000	80,000	80,000	80,000	400,000
Total	385,000	385,000	385,000	385,000	385,000	1,925,000

Budget Impact/Other
Bellagio Park construction will increase operating and maintenance costs by a negligible amount.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	1,500	1,500	1,500	1,500	1,500	7,500
Total	1,500	1,500	1,500	1,500	1,500	7,500

2022 - 2026 Capital Improvement Program

City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-00-002

Project Name Annual Park Development Program



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Development

Description
Des Moines Street Parks Development

Justification
<p>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, basketball courts, trails and passive open space.</p> <p>Proposed design/construction phasing:</p> <p>2022: Middle Park – grading and utility work</p> <p>2023: Middle Park – completion (playground, shelter with single family restroom and park amenities)</p> <p>2023: South Park – design</p> <p>2024: South Park – construction (shelter, restrooms, basketball court, ballfields and park amenities)</p> <p>2026: North Park and Trail Park – design and construction</p> <p>These projects would qualify for Civic Trust Funds and the construction timetable could be condensed with additional funding.</p> <p>Staff is currently negotiating a PSA with Nilles Associates for final design and construction administration on the Middle Park for 2022 construction (grading & utility work).</p>

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		90,000			50,000	140,000
Construction Costs	450,000	475,000	880,000		525,000	2,330,000
Total	450,000	565,000	880,000		575,000	2,470,000
Funding Sources	2022	2023	2024	2025	2026	Total
Civic Trust Fund	450,000	565,000	880,000		575,000	2,470,000
Total	450,000	565,000	880,000		575,000	2,470,000

Budget Impact/Other
The maintained park space will include 20 active space acres and 30 natural acres.

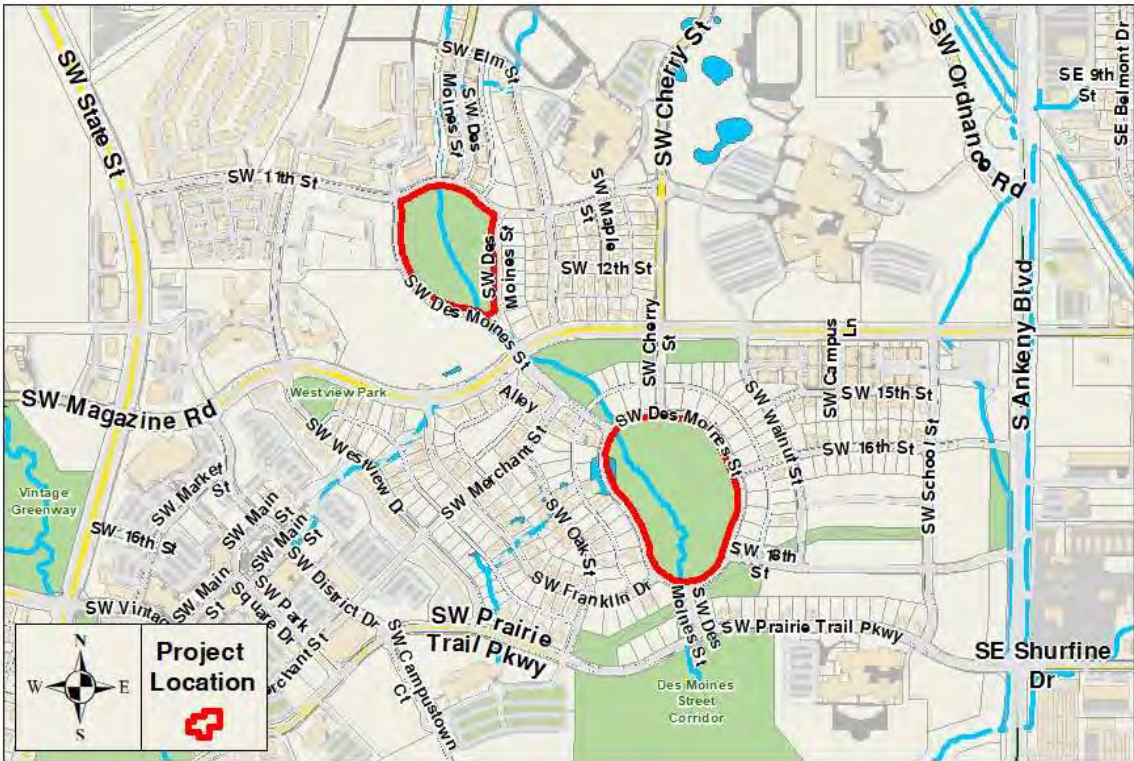
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		1,500	3,200	3,200	7,500	15,400
Total		1,500	3,200	3,200	7,500	15,400

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	PRK-22-002
Project Name	Miracle Park Wheelchair Swing

Description
Purchase and installation of a wheelchair swing at the Miracle Park.

Justification
<p>Predominantly, the only complaint department staff continues to receive regarding the Miracle Park playground equipment is the lack of a wheelchair swing. The We-Go-Swing is a revolutionary step forward in inclusive play experiences. Designed to be integrated into the playground setting, this swing lets kids of all abilities play together and experience the thrill of swinging. With no need to transfer, the We-Go-Swing opens up a whole new world of playground fun. The swing would be installed in the SE corner of the playground.</p> <p>The Ankeny Kiwanis are supportive of this project and would cost share it 50/50 with the City. This project would qualify for the Miracle Park-Capital Project funds, which has a current balance of \$85,945.</p>

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	45,000					45,000
Vehicle/Equipment	35,000					35,000
Total	80,000					80,000

Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	40,000					40,000
Private Contributions	40,000					40,000
Total	80,000					80,000

Budget Impact/Other
N/A

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

Project #	PRK-22-002
Project Name	Miracle Park Wheelchair Swing



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type New Construction
Useful Life 5 years
Category Park Facilities

Project #	PRK-22-003
Project Name	Prairie Ridge Sports Complex-SB Bleacher Canopies

Description
Purchase and install twelve (12) softball bleacher canopies at the Prairie Ridge Sports Complex.

Justification
Staff was approached by Ankeny Girls Softball Association (AGSA) regarding installing 12 cantilevered shade/safety canopies over the bleachers at the six softball fields. The project would be dual purpose as the shade structures would provide additional safety for spectators from both the sun and errant softballs. The project will be cost shared 50/50 with AGSA and is their club's #1 request/complaint.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	75,000					75,000
Vehicle/Equipment	75,000					75,000
Total	150,000					150,000

Funding Sources	2022	2023	2024	2025	2026	Total
General Fund	75,000					75,000
Private Contributions	75,000					75,000
Total	150,000					150,000

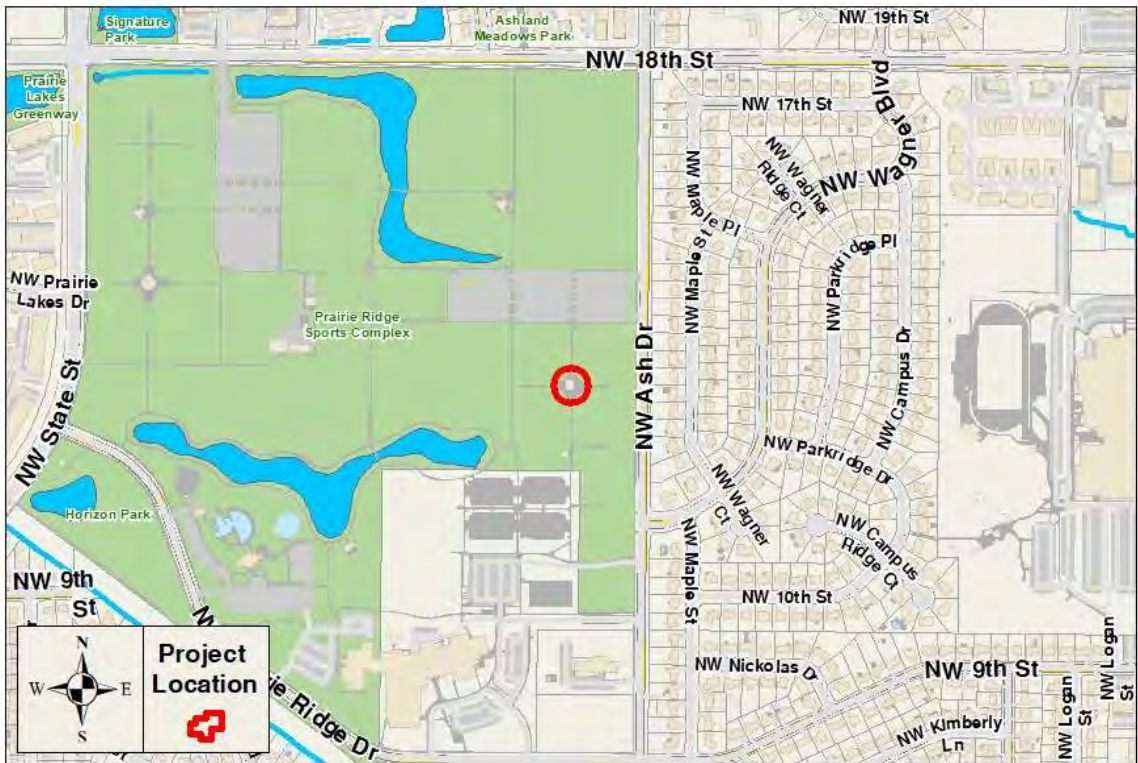
Budget Impact/Other
The shade canopies would need to be replaced approximately every five years.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

Project #	PRK-22-003
Project Name	Prairie Ridge Sports Complex-SB Bleacher Canopies



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 will be pursued to support the enhancements after the grading and lighting is complete (trees = \$52,000, lighting = \$115,000-\$160,000, earthwork = \$120,000 and native seeding = \$33,000).

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	50,000					50,000
Construction Costs	350,000					350,000
Total	400,000					400,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	200,000					200,000
Hotel/Motel Tax Fund	200,000					200,000
Total	400,000					400,000

Budget Impact/Other

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

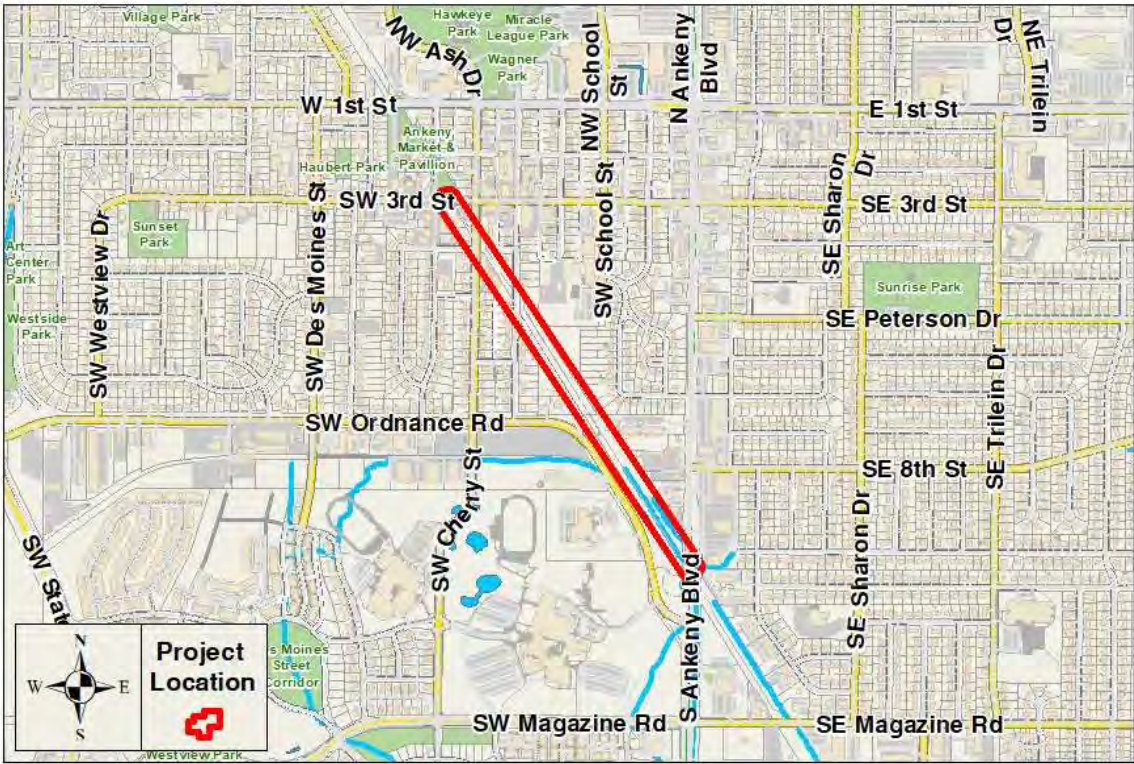
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	1,500	200	200	200	200	2,300
Utilities	750					750
Total	2,250	200	200	200	200	3,050

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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-22-006
Project Name	Cherry Glen Ballfield

Description

Construct a 200' baseball/softball field in the Cherry Glen neighborhood in NW Ankeny. Additional park amenities would include parking lot, batting cages, connecting trails, shelter, drinking fountain, etc.

Justification

Community use and limited access to baseball/softball fields are at an all-time high demand. This project would help alleviate field congestion and provide an additional ballfield (skinned infield) for community use. The project site is a good location to add a ballfield as it is city-owned, bordered on the west by Highway 415, will have minimal impact on neighboring property owners and is accessible from NW 8th Street. Department staff would plan on reserving the field through the current community lottery system administered each spring.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	50,000					50,000
Construction Costs	450,000					450,000
Total	500,000					500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Civic Trust Fund	500,000					500,000
Total	500,000					500,000

Budget Impact/Other

Minimal impacts expected on department operations would include annual field maintenance and snow removal. No field lighting is included with this project.

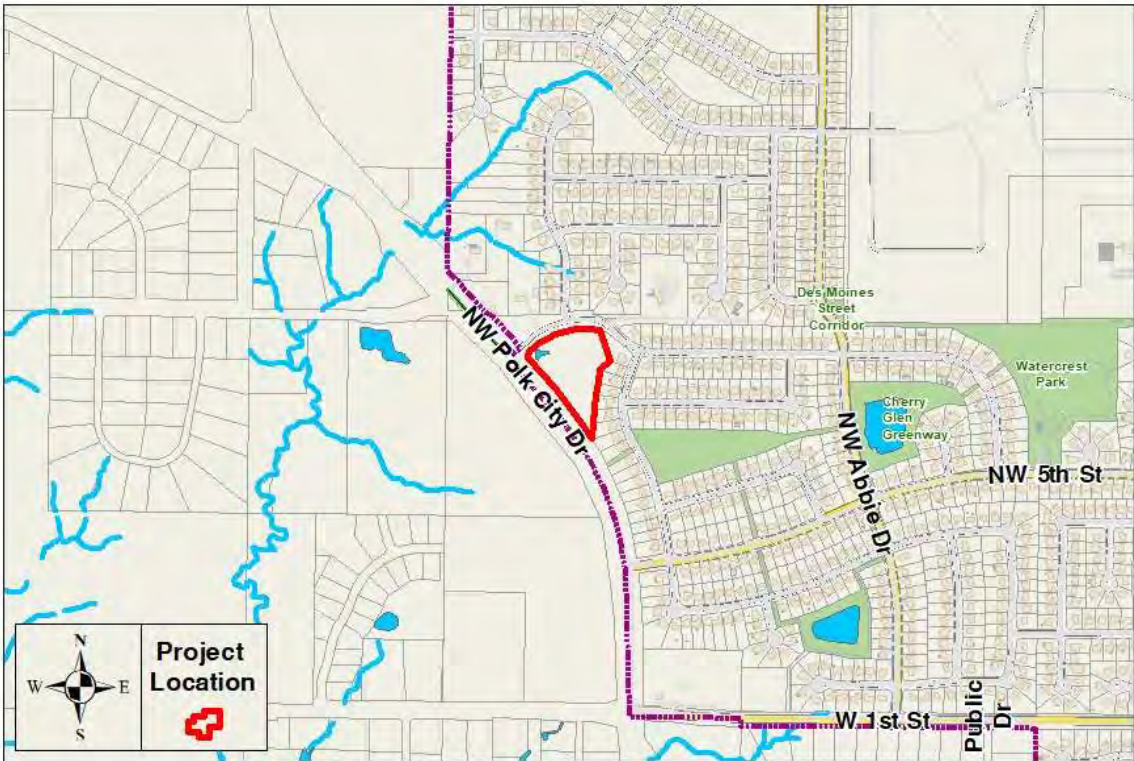
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		3,000	3,000	3,000	3,000	12,000
Total		3,000	3,000	3,000	3,000	12,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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, 2022 to 2026 - \$250,000/year (construction)
- Sidewalk and pedestrian ramp gaps along City property, 2022 to 2026 - \$125,000/year (construction)
- 8-ft. sidewalk and 10-ft. trail panel replacements, 2022 to 2026 - \$25,000/year (construction)
- Development sidewalk oversizing, 2022 to 2026 - \$50,000/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.

Justification

The purpose of this program is to bring existing pedestrian ramps into ADA compliance and provide new sections of recreational trails and sidewalks adjacent to the City's arterial and collector streets in order to promote non-motorized travel and a corresponding healthier lifestyle in Ankeny. These projects are often completed in conjunction with the Parks and Recreation Department to maximize the connectivity of the overall trail and sidewalk system.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	450,000	450,000	450,000	450,000	450,000	2,250,000
Total	450,000	450,000	450,000	450,000	450,000	2,250,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	200,000	200,000	200,000	200,000	200,000	1,000,000
Road Use Tax Fund	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	450,000	450,000	450,000	450,000	450,000	2,250,000

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 noncompliant 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 8-ft. sidewalk system should make winter maintenance operations more efficient.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	2,200	2,600	3,000	3,400	3,800	15,000
Total	2,200	2,600	3,000	3,400	3,800	15,000

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # SDW-00-001

Project Name Annual Sidewalk/Trail Construction Program



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Sidewalks/Trails

Project #	SDW-16-001
Project Name	High Trestle Trail Extension-Magazine to Oralabor

Description

This project will plant trees, shrubs, and permanent (native) seeding along the newly constructed High Trestle Trail Extension from SE Magazine Road to SE Oralabor Road and around the bridge over SE Oralabor Road. It is anticipated that this project would be completed in the fall of 2022 after the trail and bridge construction has been completed.

Justification

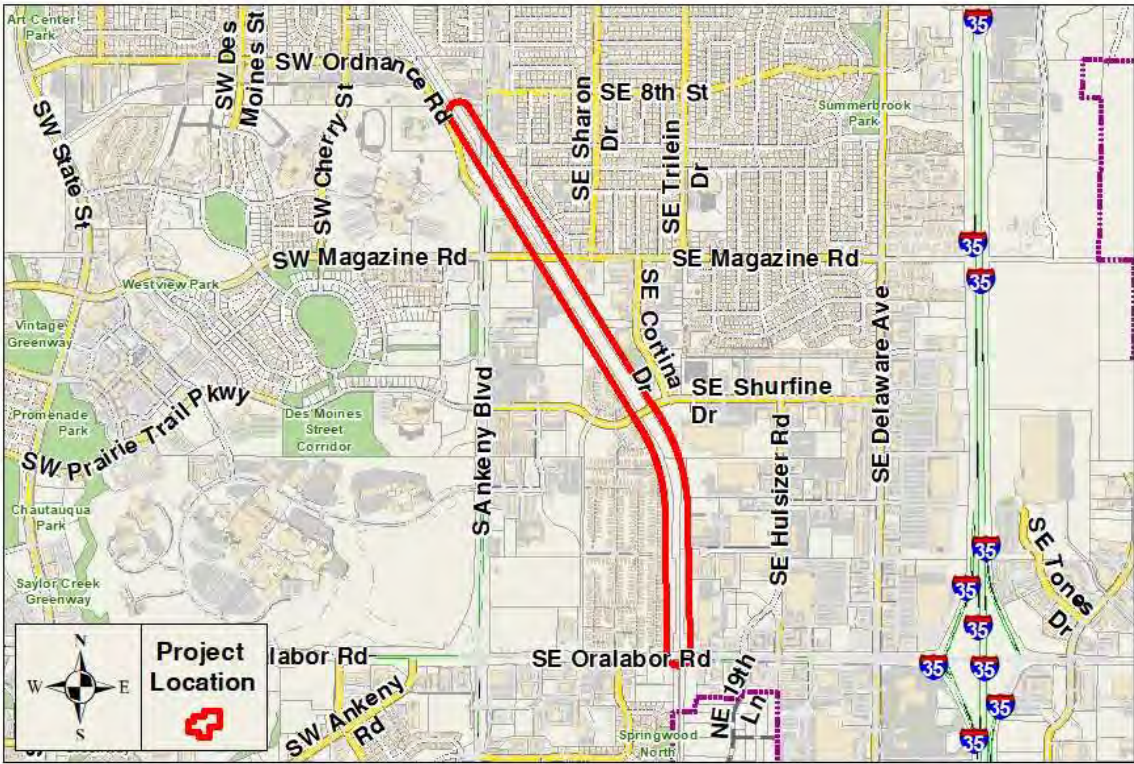
This project will complete the High Trestle Extension from SE Magazine Road to SE Oralabor Road project. It is being designed and constructed as a separate project from the trail and bridge project in order to help ensure that a quality contractor will perform the work.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction	10,000					10,000
Services						
Construction Costs	90,000					90,000
Total	100,000					100,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	100,000					100,000
Total	100,000					100,000

Budget Impact/Other

The Parks and Recreation Department will have increased cost in maintaining the plantings around the bridge.

Project #	SDW-16-001
Project Name	High Trestle Trail Extension-Magazine to Oralabor



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Sidewalks/Trails

Project # SDW-19-001

Project Name Ora labor Gateway Trai l-State St Separa ted Crossing

Description

Construction of a grade-separated crossing, specifically an underpass tunnel, for the Oralabor Gateway Trail at the intersection of SW State Street and SW Oralabor Road. The proposed tunnel will span the south leg of the intersection. A study completed in 2021 determined the preferred alternative of a tunnel for the crossing. Also, the development of this project will need to be coordinated with the SW Oralabor Road and SW State Street Safety Improvements project which has the same proposed schedule.

Justification

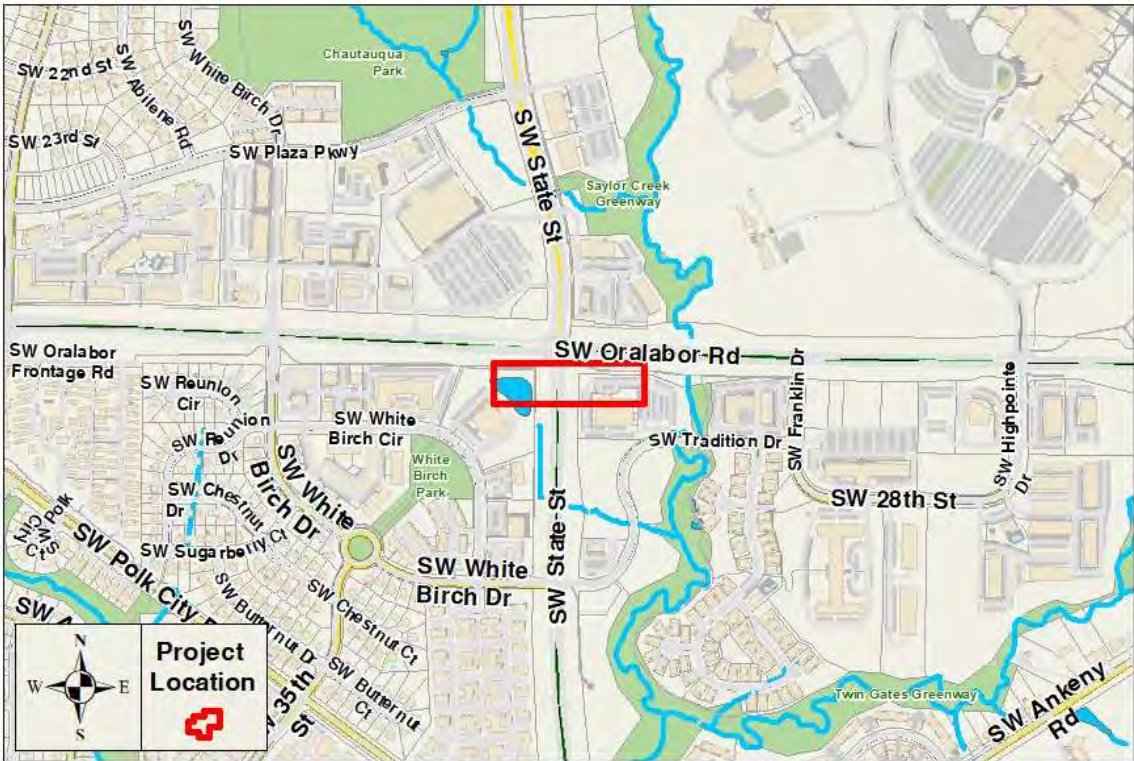
The Oralabor Gateway Trail is a regional trail connection between the Neal Smith Trail system (to the west) and the Gay Lea Wilson Trail system (to the east). The trail is a 10' wide PCC trail that runs along the south side of SW/SE Oralabor Road across the south side of Ankeny. The trail is very popular 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. To date, the project has received \$1,050,000 of STBG-TAP funding from the Des Moines Area MPO for construction in 2023. SW State Street and SW Oralabor Road (IA Highways 415 and 160) are joint jurisdictional streets with the Iowa DOT, so the project will involve DOT coordination and bid letting.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	175,000					175,000
Engineering-Construction Services		175,000				175,000
Construction Costs		1,700,000				1,700,000
Land/ROW Acquisition	10,000					10,000
Total	185,000	1,875,000				2,060,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	185,000	825,000				1,010,000
MPO/STBG Grants		1,050,000				1,050,000
Total	185,000	1,875,000				2,060,000

Budget Impact/Other

After completion, the new grade-separated structure should require only a minor amount of maintenance each year. The Parks and Recreation Department would be required to maintain the tunnel during the winter months when plowing snow for the Oralabor Gateway Trail.

Project #	SDW-19-001
Project Name	Oralabor Gateway Trail I-State St Separated Crossing



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Parks and Recreation
 Contact Parks and Recreation Director
 Type New Construction
 Useful Life 40 years
 Category Sidewalks/Trails

Project #	SDW-21-001
Project Name	Rock Cree k Trai l and Native Plantings

Description
Extend Boulder Brook Trail from its current terminus approximately 0.15 miles to connect with residential sidewalk on NW Seasons Drive, as well as better define City property by establishing native plantings along the greenway.

Justification
<p>This project is in a newly developing portion of our City. The benefits of the overall project are twofold and include extending the Boulder Brook Trail from its current terminus 0.15 miles to connect with residential sidewalk on NW Seasons Drive. Currently, the trail section ends in the middle of the Rock Creek Greenway. This important extension will provide pedestrians, bicycles and other recreational users increased access to NW Ankeny and provide direct access to Boulder Brook Park for neighboring residents.</p> <p>Secondly, replace the current non-native grasses (i.e. brome grass) and weeds with an establishment of native plantings and vegetation along approximately 13 acres of the greenway. The City acquired the greenway north to NW 18th Street in 2016. With the recent development in the area over the last several years, encroachments into the greenway have also increased. These encroachments include mowing of the greenway, landscaping, plantings, spraying vegetation and erecting physical structures within City property.</p> <p>While the City has worked on enforcing code infractions and removed encroachments, establishing native grasses and pollinator gardens along the greenway will better define park property, as well as enhance the greenway for all to enjoy. Please note that the Rock Creek Greenway was designed to be constructed as a natural space. Safeguarding the greenway is in the best interest of the public and it is critical that the City protect the natural environment and animal habitat (food and shelter), as well as retain the public access/enjoyment of these areas. In short, we do not want anyone interfering with the natural park space and are looking to better define park boundaries and eliminate encroachments by the beautification of the area through the restoration of native grasses along the greenway. The work to accomplish this includes multiple mowings, spot treatments with herbicide, native seeding, nurse crop and bonded fiber matrix hydro mulch.</p> <p>City staff have applied for an Iowa Department of Natural Resources REAP Grant for this project in the amount of \$200,000.</p>

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	30,000					30,000
Construction Costs	350,000					350,000
Total	380,000					380,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	180,000					180,000
IDNR/REAP Grants	200,000					200,000
Total	380,000					380,000

Budget Impact/Other
N/A

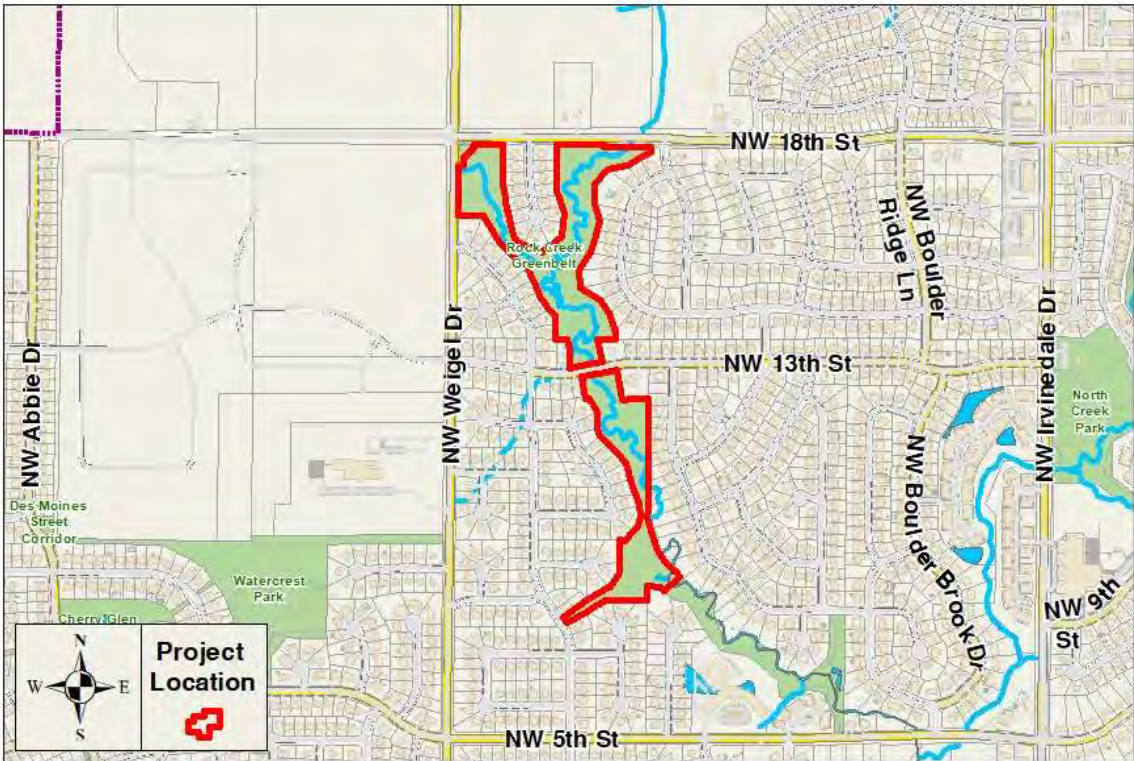
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		1,500	1,500	1,500	1,500	6,000
Total		1,500	1,500	1,500	1,500	6,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Parks and Recreation
Contact Parks and Recreation Director

Project #	SDW-21-001
Project Name	Rock Creek Trail and Native Plantings



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type New Construction
Useful Life 40 years
Category Sidewalks/Trails

Project #	SDW-21-002
Project Name	Clover Ridge Trail

Description

Clover Ridge Trail

Justification

The Clover Ridge Trail project installs approximately 0.20 miles of community trail along vacant park property. This park parcel was acquired due to a permanent gas line easement beneath the surface and the opportunity to better connect the neighboring residents to each other and Hillside Park in SE Ankeny. We continue to receive multiple requests/complaints from neighboring residents to complete this segment.

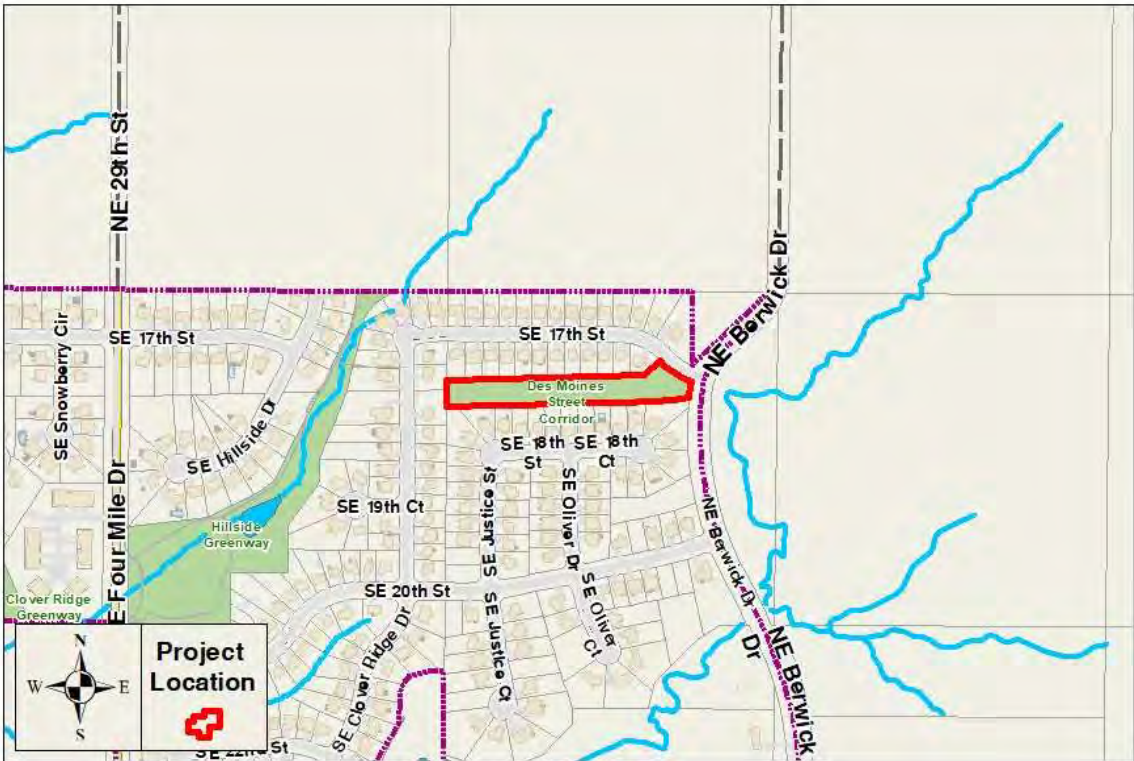
Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs		85,000				85,000
Total		85,000				85,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds		85,000				85,000
Total		85,000				85,000

Budget Impact/Other

N/A

Budget Item s	2022	2023	2024	2025	2026	Total
Maintenance Costs			500	500	500	1,500
Total			500	500	500	1,500

Project #	SDW-21-002
Project Name	Clover Ridge Trail



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project # SNS-00-001
Project Name Annual Sanitary Sewer Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of sanitary sewers and structures and the Sanitary Sewer Fund's portion of the neighborhood projects. Specific projects for 2022 to 2026 include:

- CIPP sanitary sewer lining: 2022 to 2026 - \$600,000/year even years
- Manhole major adjustments/repairs: 2022 to 2026 - \$25,000/year
- Sanitary sewer spot repairs: 2022 to 2026 - \$50,000/year
- Development sanitary sewer oversizing: 2023 - 2026 - \$30,000/year (\$60,000 for 2022)
- 1/3 NW Northlawn Area Utility Improvements (3 of 4 Phases Remaining): 2022 - \$250,000 (Remaining Phase 1 Construction) and \$10,000 (Remaining Phase 1 Construction Engineering) and \$10,000 (Remaining Phase 2 Design Engineering) and \$15,000 (Initial Phase 2 Construction – Storm Sewer Outfall Only); 2023 - \$490,000 (Phase 2 Construction) and \$15,000 (Phase 2 Construction Engineering) and \$20,000 (Phase 3 Design Engineering); 2024 - \$400,000 (Phase 3 Construction) and \$15,000 (Phase 3 Construction Engineering) and \$20,000 (Phase 4 Design Engineering); 2025 - \$455,000 (Phase 4 Construction) and \$15,000 (Phase 4 Construction Engineering)
- 1/3 Original Ankeny Area Utility Improvements (Number of Phases still TBD): 2024 - \$25,000 (Survey and Conceptual Design); 2025 - \$50,000 (Phase 1 Design Engineering); 2026 - \$500,000 (Phase 1 Construction) and \$25,000 (Phase 1 Construction Engineering) and \$25,000 (Phase 2 Design Engineering)

Justification

The City's sanitary sewer system is routinely inspected and monitored by Municipal Utilities staff in order to assess the condition of the infrastructure and identify any portions that may need to be repaired or replaced. Municipal Utilities staff has determined the projects in this program by visual inspection of the sanitary sewer system, including manholes and pipes and from investigations following resident complaints. The projects in this program are justified by the need to maintain a functional sanitary sewer system, reduce inflow and infiltration, reduce long-term maintenance issues and address resident complaints. This is continuing the increased request for Cured in Place Pipe (CIPP) sanitary sewer lining bi-annually as we have approximately 230,000 lineal feet of vitrified clay pipe (VCP) within our system and even at the newly requested rate it will take 18 years to get all of our VCP lined. CIPP lining reduces approximately 20% of the Inflow and Infiltration (I & I) in the line segment it is installed in and it also prevents root intrusion within City mains, which is a major contributor to sewer backups and service calls. This CIPP lining however, does not prevent I & I or root issues within private lines or services.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		20,000	45,000	50,000	25,000	140,000
Engineering-Construction Services		15,000	15,000	15,000	25,000	70,000
Construction Costs	750,000	595,000	1,105,000	560,000	1,205,000	4,215,000
Total	750,000	630,000	1,165,000	625,000	1,255,000	4,425,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	150,000		465,000		555,000	1,170,000
Sewer Fund	600,000	630,000	700,000	625,000	700,000	3,255,000
Total	750,000	630,000	1,165,000	625,000	1,255,000	4,425,000

Budget Impact/Other

The operating impact for this project will provide a cost savings over time due to the replacement of old and deteriorating sanitary sewer with new PVC mains, relined mains and repaired pipes. This will reduce the I&I and lower our WRA flow. These areas will be placed on our routine pipe cleaning and inspection programs at the end of the maintenance bond, reducing our maintenance cost for that period. The number of Sanitary Sewer Overflows (SSO) and basement back-ups that Municipal Utilities staff will have to respond to should be reduced in the near term, with the upgraded infrastructure. We will have staff time in sewer video reviews, locating services, jetting services, and field inspections. Staff continues to hydro-excavate and to sonde pipes by other departments for in-house projects. Additionally, there will be administrative time for planning and design work.

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director

Budget Items	2022	2023	2024	2025	2026	Total
Utilities	100	100	100	100	100	500
Total	100	100	100	100	100	500

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	SNS-11-001
Project Name	Otter Creek Trunk Sewer-Phase 3

Description
Install approximately 1,500 LF of 24" diameter trunk sewer from the end of the existing Otter Creek Truck Sewer – Phase 2 on the east side of Interstate 35, extended east/northeast along the creek to the north end of the property. All sewer to the south will be installed with the on-going Spectrum 36 Development and has been removed from this project as it was previously included.

Justification
The purpose of this project is to extend sanitary sewer service east and north to allow for the future growth of the northeast portion of the City of Ankeny.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	85,000					85,000
Construction Costs	600,000					600,000
Total	685,000					685,000

Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund	685,000					685,000
Total	685,000					685,000

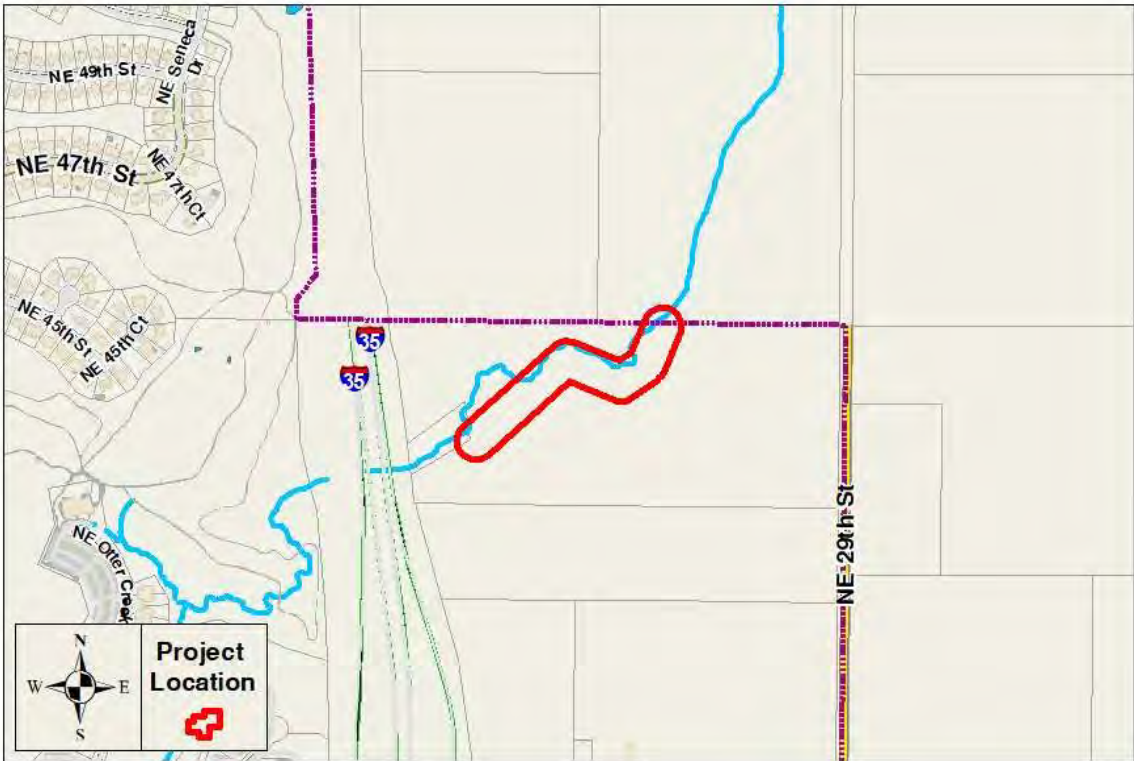
Budget Impact/Other
Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have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

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-11-001
Project Name	Otter Creek Trunk Sewer-Phase 3



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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	2022	2023	2024	2025	2026	Total
Engineering-Design		110,000				110,000
Engineering-Construction Services			110,000			110,000
Construction Costs			1,105,000			1,105,000
Land/ROW Acquisition		100,000				100,000
Total		210,000	1,215,000			1,425,000
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund		210,000	1,215,000			1,425,000
Total		210,000	1,215,000			1,425,000

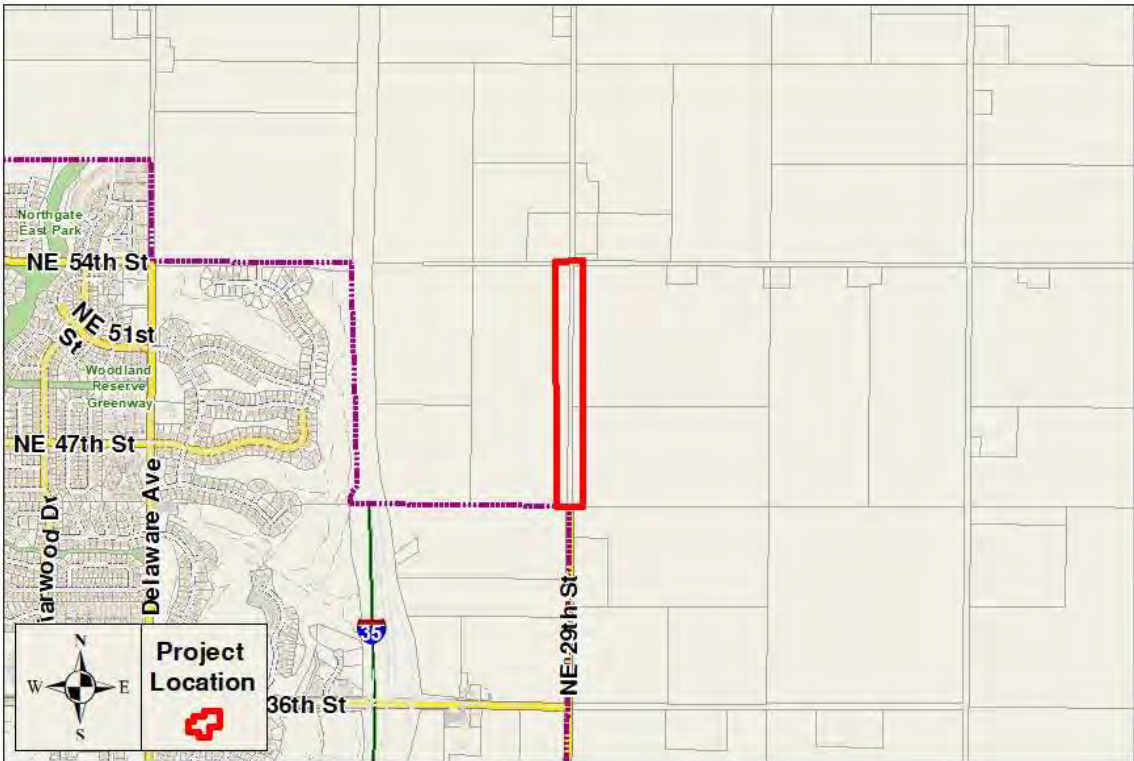
Budget Impact/Other
Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have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

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 3,700 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	2022	2023	2024	2025	2026	Total
Engineering-Design	190,000					190,000
Engineering-Construction Services		160,000				160,000
Construction Costs		1,785,500				1,785,500
Land/ROW Acquisition		14,500				14,500
Total	190,000	1,960,000				2,150,000
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund	190,000	1,960,000				2,150,000
Total	190,000	1,960,000				2,150,000

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 equipment to televise this size of active sewer.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 2,500 LF of 15" sanitary sewer along SE 3rd Street, between South Ankeny Boulevard and SE Trilein Drive. Additionally, the existing 4" water main within that same corridor will be replaced and upsized to 8" main (2,700 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	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	130,000	70,000				200,000
Construction Costs	760,000	800,000				1,560,000
Total	890,000	870,000				1,760,000
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund	890,000	870,000				1,760,000
Total	890,000	870,000				1,760,000

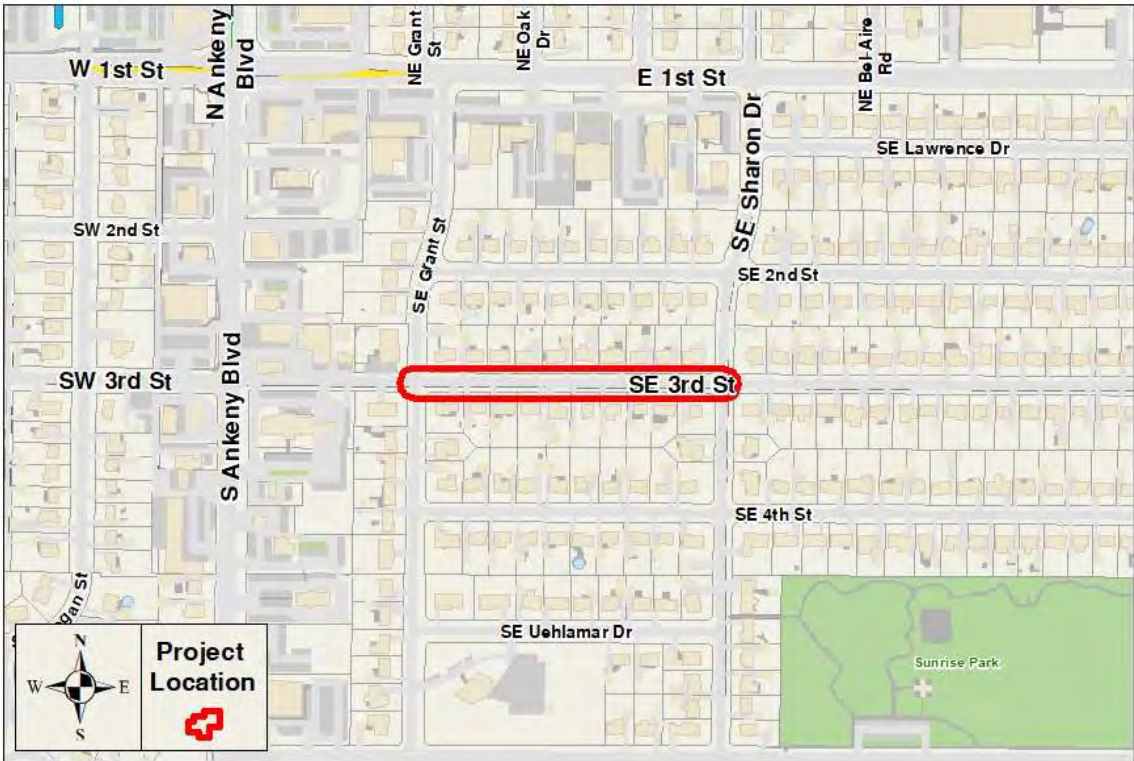
Budget Impact/Other
It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance. Upsizing 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 42,300 gallons to fill and flush the new water main.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	SNS-21-001
Project Name	Canyon Landing Sanitary Sewer Cost Share -Phase 2

Description

The Canyon Landing Sanitary Sewer Cost Share – Phase 2 project will include the installation of approximately 1,500 LF of 21” sanitary line. This line will connect to an existing manhole at the future NE Deerfield Drive and NE 15th Street intersection that was installed with the Canyon Landing Plat 1 public improvements. The line will continue through the future Canyon Landing development and end on the east side of NE 38th Street to provide sanitary sewer capacity for future development to the east.

Justification

The Canyon Landing Sanitary Sewer Cost Share project was proposed in 2021 due to the developer’s (DR Horton) immediate need for sewer connection for Plat 1 of their proposed development. We received 3 cost estimates from Stubbs Engineering (developer’s engineer) on the price difference from a standard 8” pipe installation to the required 21” pipe at a greater depth to serve future development. These estimates ranged from \$721,000 to \$1,140,000. Using the average of these bids would result in the need to budget for \$930,000. The total cost share payment to be paid in 2021 to DR Horton for Plat 1 will be \$436,649. The remaining amount for the Phase 2, which is anticipated to be in 2022, will be \$493,351 (\$930,000-\$436,649). The full amount of \$930,000 has been borrowed by the City so the funds are already available for Phase 2.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	493,351					493,351
Total	493,351					493,351
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	493,351					493,351
Total	493,351					493,351

Budget Impact/Other

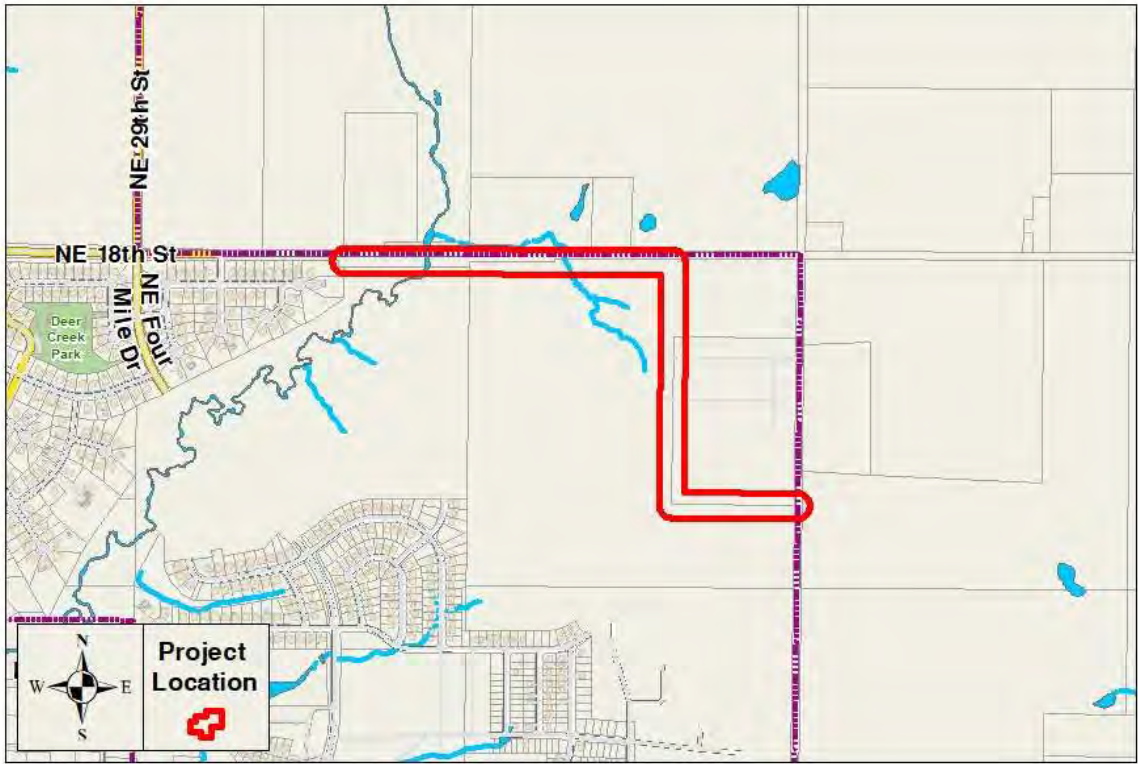
N/A

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-21-001
Project Name	Canyon Landing Sanitary Sewer Cost Share -Phase 2



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 2,700 LF of 21” sanitary line and approximately 1,600 LF of 24” sanitary line. This line will connect at an existing manhole at the northwest corner of Trestle Ridge Estates Plat 6. The line will continue north under NW 36th Street and end 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 service to a subdivision north of NW 36 Street and west of NW Irvinedale Drive. The sanitary 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.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	600,000					600,000
Total	600,000					600,000
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund	600,000					600,000
Total	600,000					600,000

Budget Impact/Other

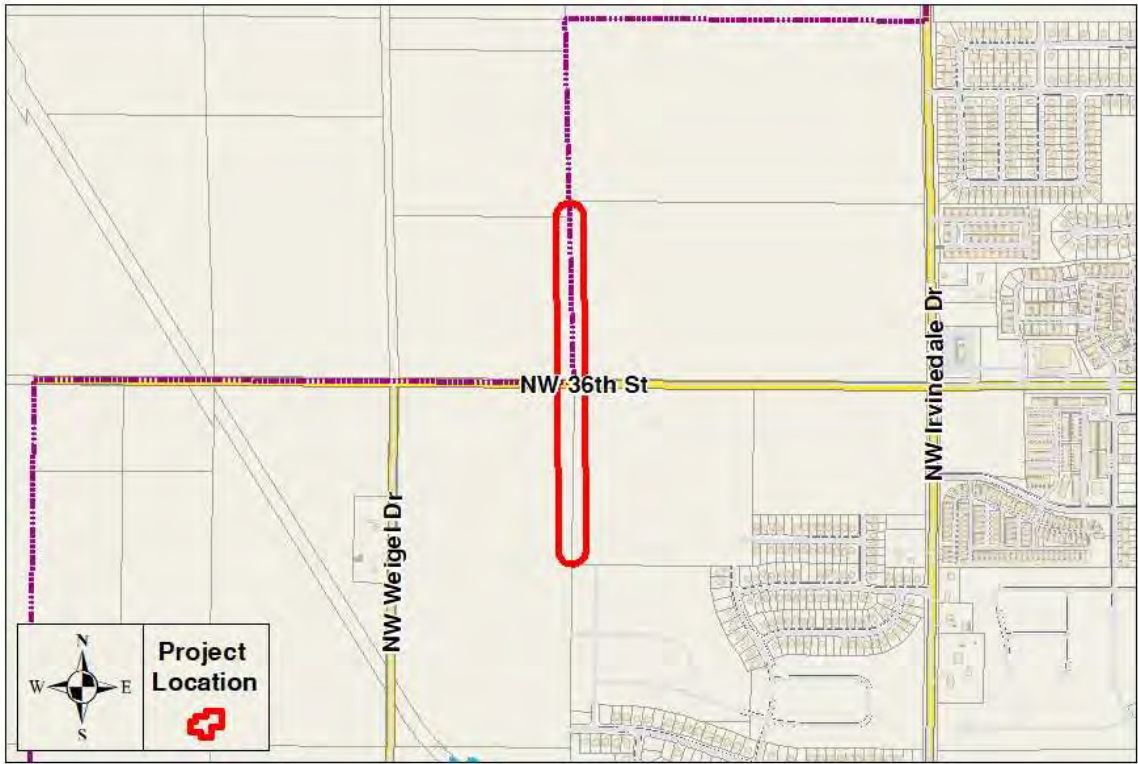
N/A

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 & gutter) will also need to be replaced.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	38,200					38,200
Engineering-Construction Services		31,820				31,820
Construction Costs		349,990				349,990
Total	38,200	381,810				420,010
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund	38,200	381,810				420,010
Total	38,200	381,810				420,010

Budget Impact/Other

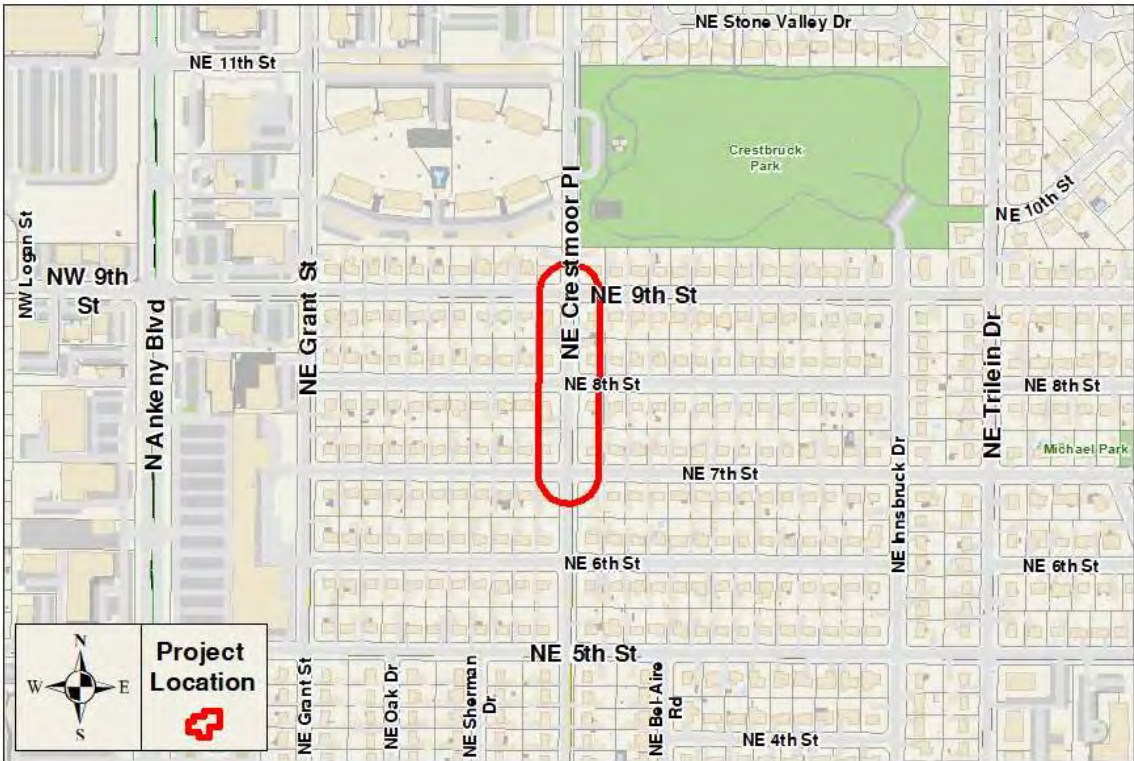
It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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	2022	2023	2024	2025	2026	Total
Engineering-Design			60,000			60,000
Engineering-Construction Services				50,000		50,000
Construction Costs				547,910		547,910
Land/ROW Acquisition			6,100			6,100
Total			66,100	597,910		664,010
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund			66,100	597,910		664,010
Total			66,100	597,910		664,010

Budget Impact/Other

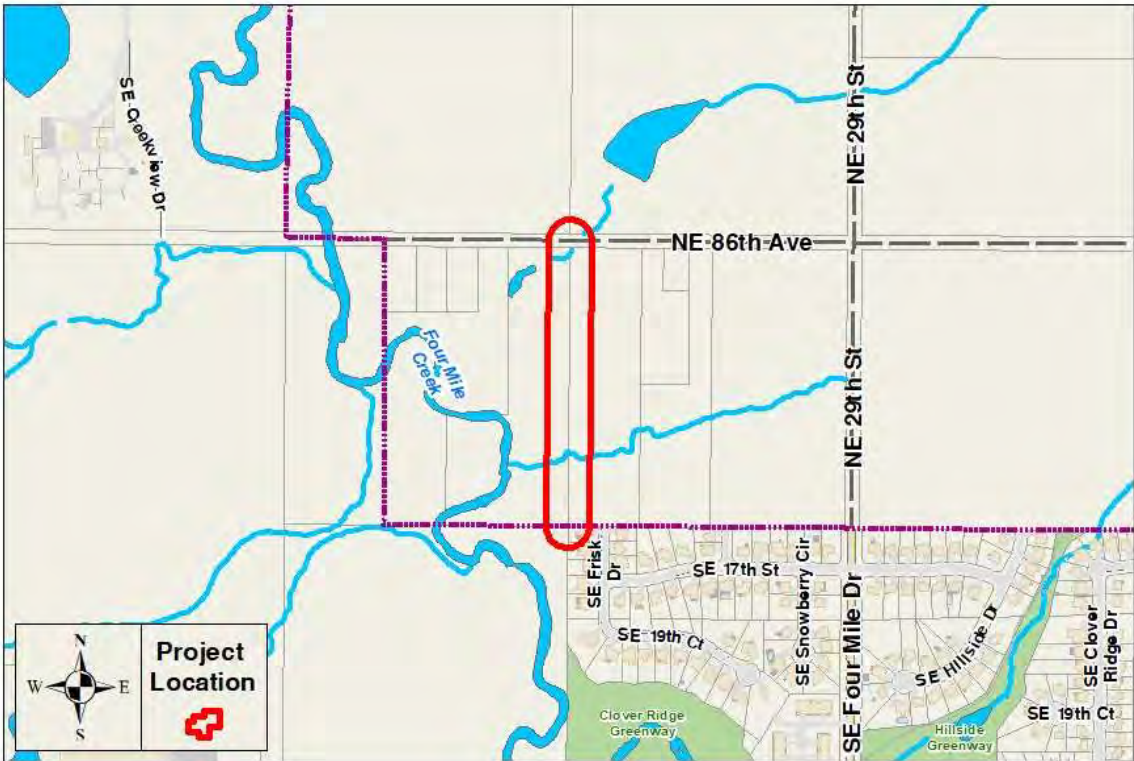
Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency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

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 2,335 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	2022	2023	2024	2025	2026	Total
Engineering-Design				81,000		81,000
Engineering-Construction Services					81,000	81,000
Construction Costs					812,350	812,350
Land/ROW Acquisition				650		650
Total				81,650	893,350	975,000
Funding Sources	2022	2023	2024	2025	2026	Total
Sewer Fund				81,650	893,350	975,000
Total				81,650	893,350	975,000

Budget Impact/Other

Since this is 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.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Sewer Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 sewers, structures, channels, etc. Specific projects, listed in order of priority, for 2022 include:

Diamond Hills Greenway Stream Repairs, design and construct - \$275,000
 NW 18th Street Storm Sewer Intake Improvements, construct - \$50,000
 West 1st Street Basin Structure Repair, construct - \$15,000
 SW Ankeny Road Culvert Repair, construct - \$20,000
 Storm Water Conservation Design Features within City Property - \$10,000
 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 areas to manage storm water more effectively, and stabilize and repair areas of erosion or structural issues. The Diamond Hills Greenway Stream Repairs project will stabilize sections of eroded stream banks along a tributary of Saylor Creek located between SW Applewood Street and Sawgrass Park. The NW 18th Street Storm Sewer Intake Improvements project will help with gutter and street flooding concerns during storm events. The West 1st Street Basin Structure Repair and SW Ankeny Road Culvert Repair projects will repair areas of damaged storm sewer infrastructure. 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	2022	2023	2024	2025	2026	Total
Engineering-Design	55,000	50,000	50,000	50,000	50,000	255,000
Construction Costs	345,000	350,000	350,000	350,000	350,000	1,745,000
Total	400,000	400,000	400,000	400,000	400,000	2,000,000

Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	100,000	50,000				150,000
Storm Water Fund	300,000	350,000	400,000	400,000	400,000	1,850,000
Total	400,000	400,000	400,000	400,000	400,000	2,000,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs	-6,000	-8,000	-10,000	-12,000	-14,000	-50,000
Total	-6,000	-8,000	-10,000	-12,000	-14,000	-50,000

2022 - 2026 Capital Improvement Program

City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility

Contact City Engineer

Project # STM-00-001

Project Name Annual Storm Water Replacement Program



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 improvement will allow the dam to be in compliance with current Iowa DNR standards for low hazard dams.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design			85,000			85,000
Engineering-Construction Services				25,000		25,000
Construction Costs				380,000		380,000
Total			85,000	405,000		490,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated			85,000	405,000		490,000
Total			85,000	405,000		490,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs					-500	-500
Total					-500	-500

City of Ankeny, Iowa

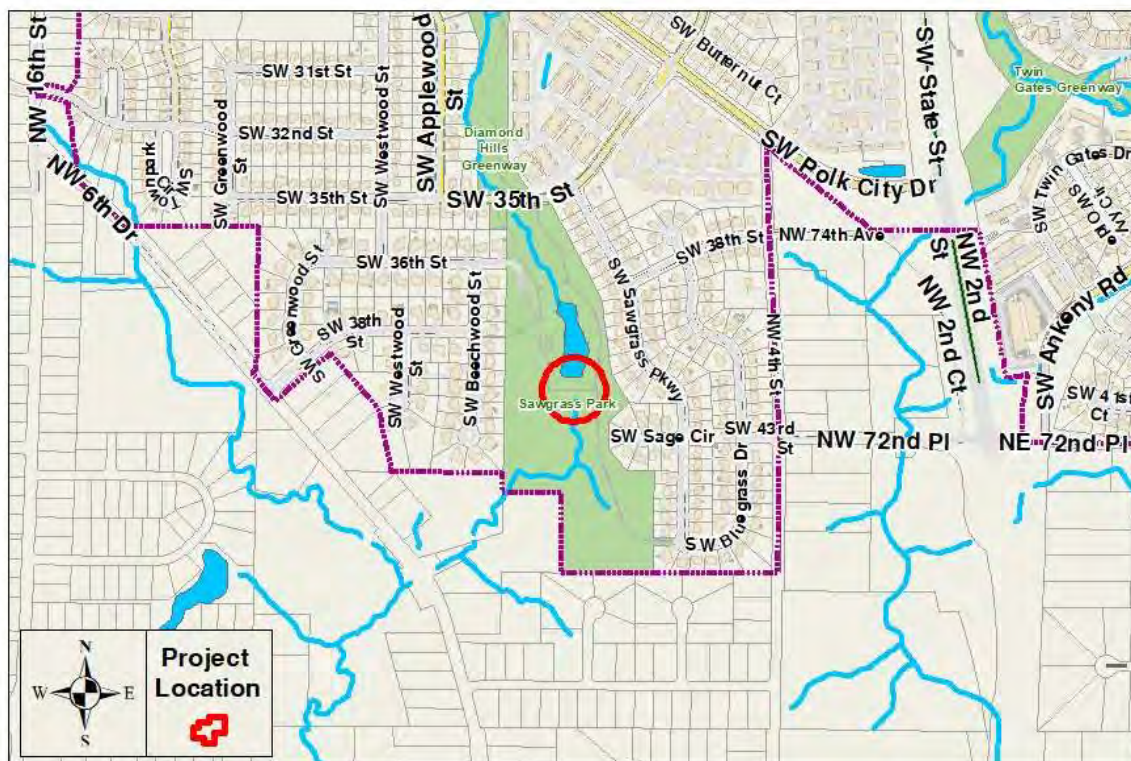
2022 *thru* 2026

Department Storm Water Utility

Contact City Engineer

Project # STM-19-004

Project Name Sawgrass Park Dam Improvements



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 currently shown for the survey and concept plan to be completed in 2022, preliminary and final design in 2023, and construction scheduled in 2024.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	20,000	45,000				65,000
Engineering-Construction Services			35,000			35,000
Construction Costs			400,000			400,000
Total	20,000	45,000	435,000			500,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated	20,000	45,000	435,000			500,000
Total	20,000	45,000	435,000			500,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs				-700	-700	-1,400
Total				-700	-700	-1,400

City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility

Contact City Engineer

Project # STM-20-001

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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-Phase 1

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 State 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. Pedestrian bridges located on public property will be removed as part of this project.

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 with construction of the project scheduled for 2022. This project will be included with the Municipal Utilities Department's High Trestle Trail Transmission Main – Phase 1 project which is proposed in the same corridor and on the same schedule.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	25,000					25,000
Construction Costs	250,000					250,000
Total	275,000					275,000

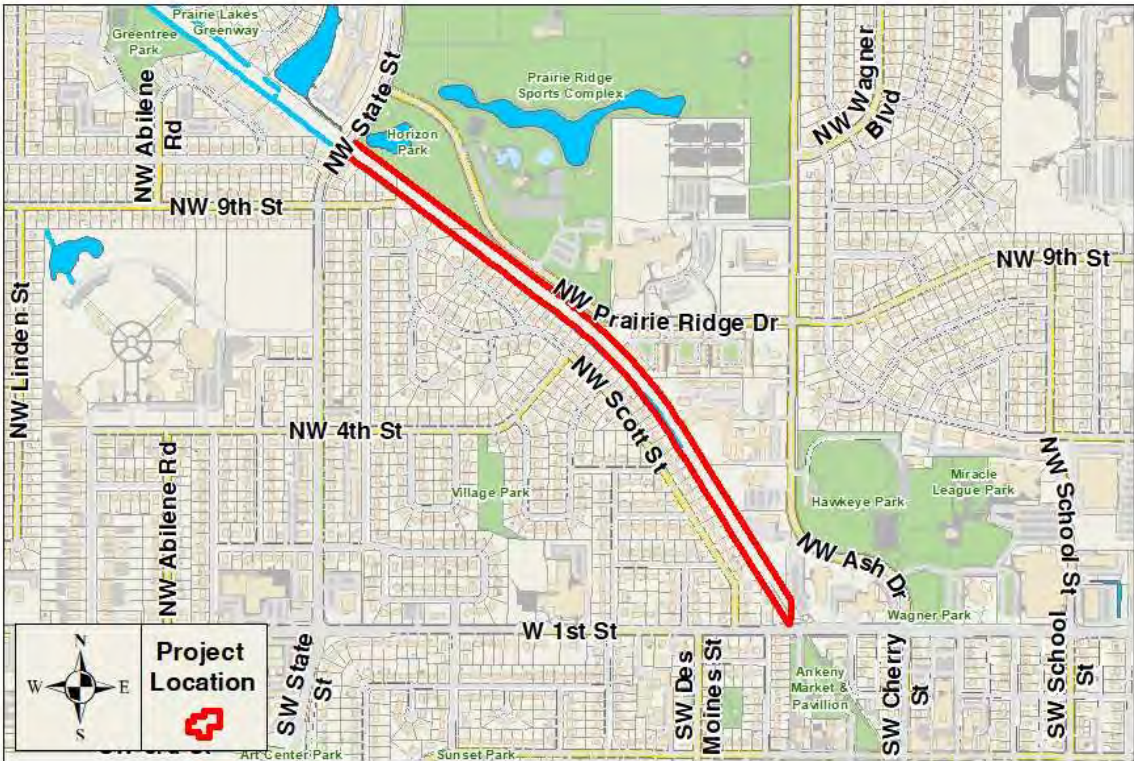
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated	275,000					275,000
Total	275,000					275,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs		-1,500	-1,500	-1,500	-1,500	-6,000
Total		-1,500	-1,500	-1,500	-1,500	-6,000

Project #	STM-20-002
Project Name	High Trestle Trail Channel Stabilization-Phase 1



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-20-003

Project Name High Trestle Trail Channel Stabilization-Phase 2

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 between NW State Street and NW Greenwood 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 and concept plan were completed in 2021. The design is scheduled for 2022 with construction anticipated in 2023. This project will be included with the Municipal Utilities Department's High Trestle Trail Transmission Main – Phase 2 project which is proposed in the same corridor and on the same schedule.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	50,000					50,000
Engineering-Construction Services		40,000				40,000
Construction Costs		450,000				450,000
Total	50,000	490,000				540,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated	50,000	490,000				540,000
Total	50,000	490,000				540,000

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.

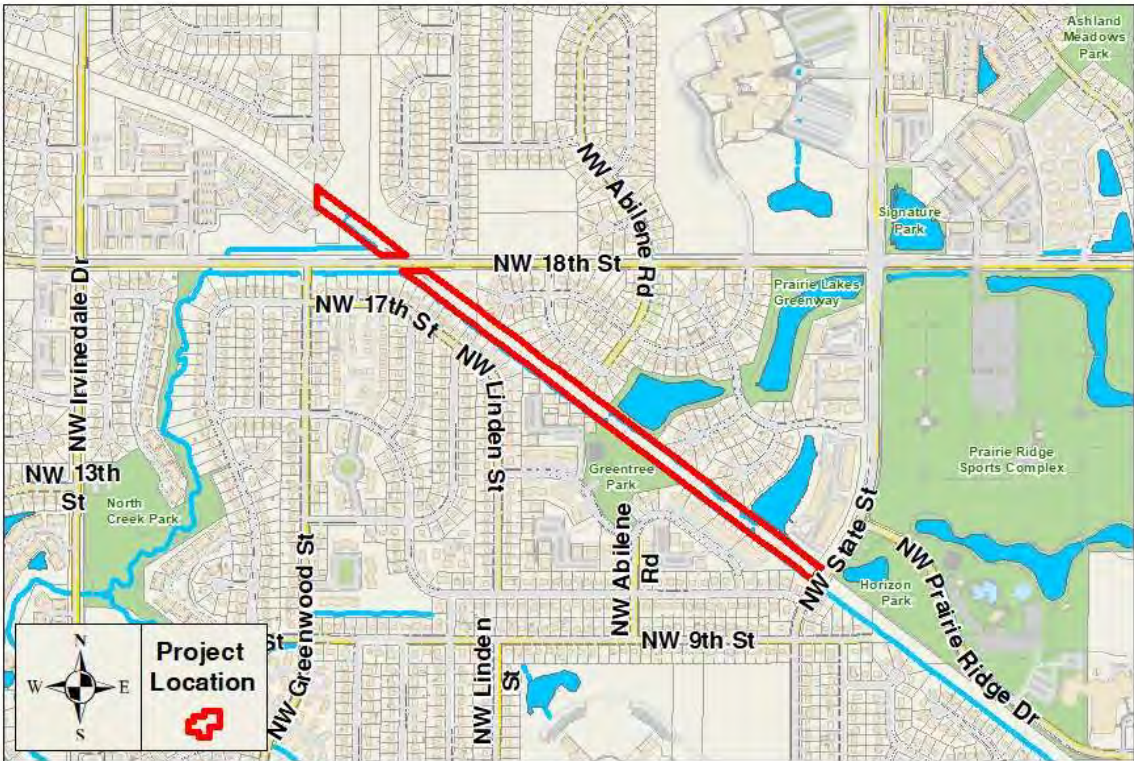
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs			-3,000	-3,000	-3,000	-9,000
Total			-3,000	-3,000	-3,000	-9,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

Project #	STM-20-003
Project Name	High Trestle Trail Channel Stabilization-Phase 2



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-20-004

Project Name Tributary to Four Mile Creek Channel Stabilization

Type Improvement

Useful Life 20 years

Category Storm Water

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 survey and concept plan to be completed in 2022, preliminary and final design in 2023, and construction scheduled in 2024.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		270,000				270,000
Engineering-Construction Services			180,000			180,000
Construction Costs			2,100,000			2,100,000
Planning Study	40,000					40,000
Total	40,000	270,000	2,280,000			2,590,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated	40,000	270,000	2,280,000			2,590,000
Total	40,000	270,000	2,280,000			2,590,000

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.

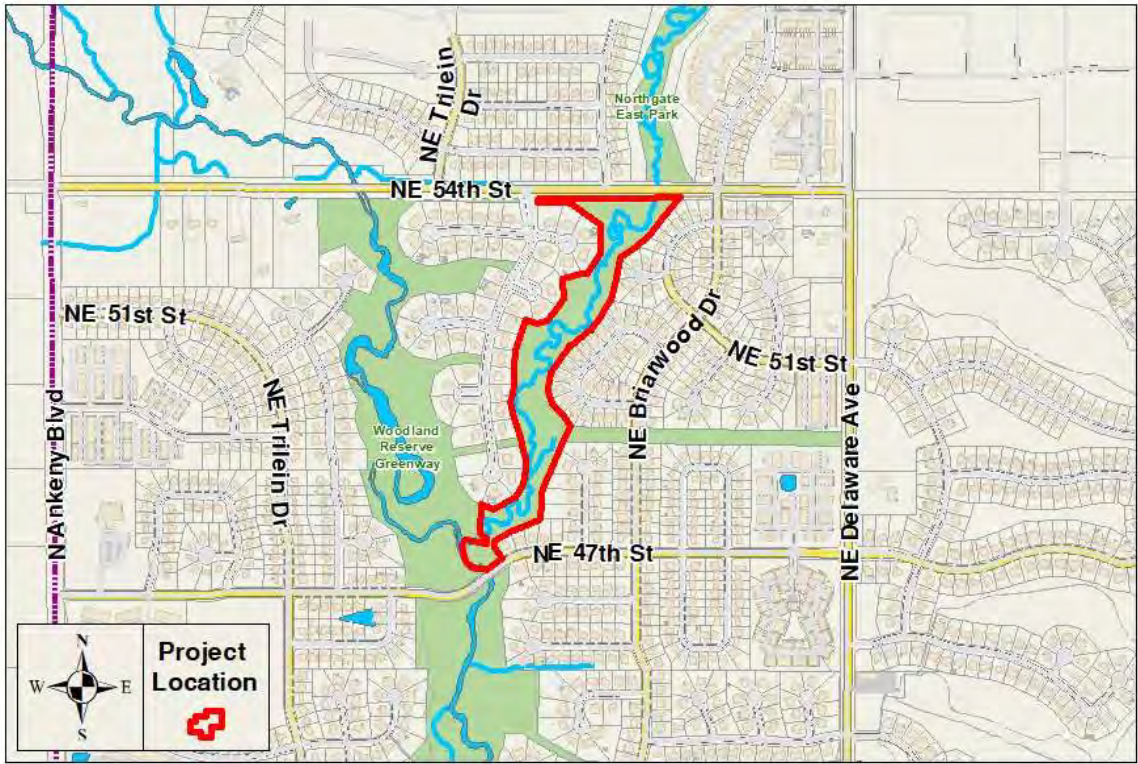
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs				-3,500	-3,500	-7,000
Total				-3,500	-3,500	-7,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 S torm 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 Ordnance 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 concept design in 2024, survey and design work in 2025, and construction of the project in 2026 and 2027.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design			35,000	300,000		335,000
Engineering-Construction Services					125,000	125,000
Construction Costs					1,500,000	1,500,000
Total			35,000	300,000	1,625,000	1,960,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated			35,000	300,000	1,225,000	1,560,000
Storm Water Fund					400,000	400,000
Total			35,000	300,000	1,625,000	1,960,000

Budget Impact/Other

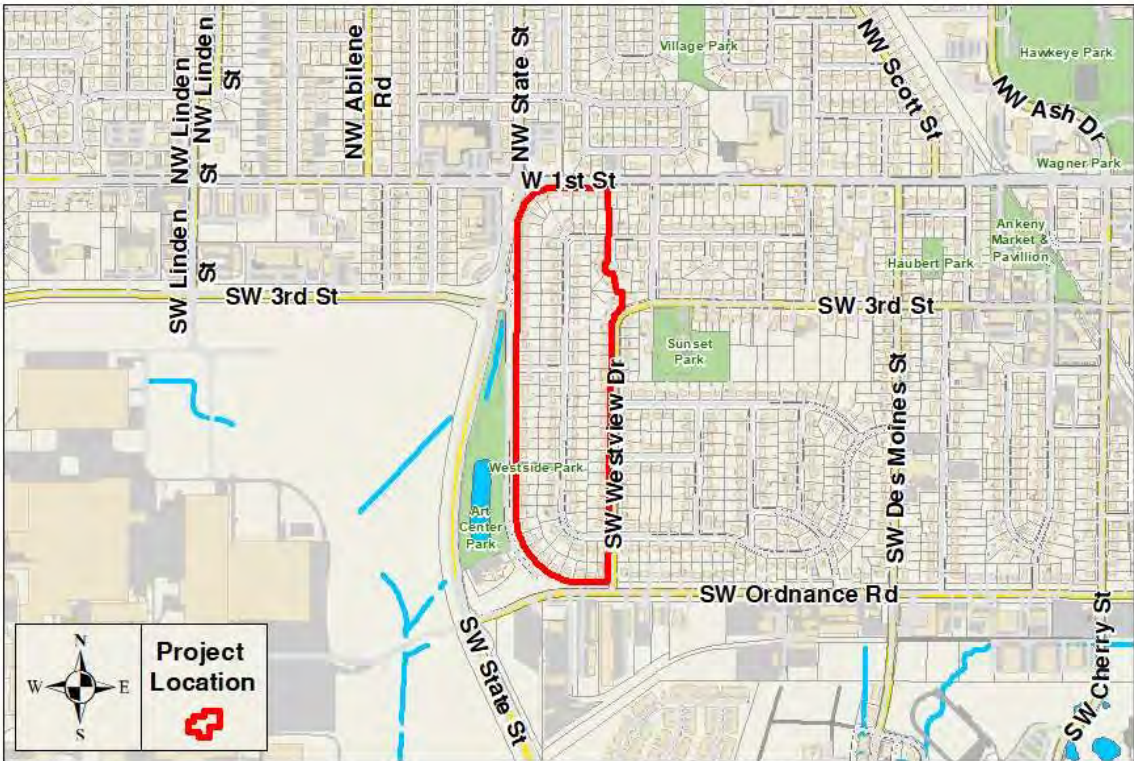
In the long term, adding new storm sewer infrastructure to the City’s storm water management system will reduce annual maintenance costs for the Public Works and Municipal Utilities departments and it should reduce the amount of Storm Water staff time needed to address drainage issues and concerns in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

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 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, 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 Trilein 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-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 design work in 2022, and construction of the project in 2022 and 2023. 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 Sewer Extension, between South Ankeny Boulevard and SE Trilein Drive, and water main replacement along SE 3rd Street. The 2022 construction costs include approximately \$250,000 of water main improvements.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	175,000	90,000				265,000
Construction Costs	1,045,000	1,085,000				2,130,000
Total	1,220,000	1,175,000				2,395,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated	820,000	775,000				1,595,000
Storm Water Fund	400,000	400,000				800,000
Total	1,220,000	1,175,000				2,395,000

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 staff time needed to address drainage issues and concerns in this area of the City.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		-1,000	-2,000	-2,000	-2,000	-7,000
Total		-1,000	-2,000	-2,000	-2,000	-7,000

City of Ankeny, Iowa

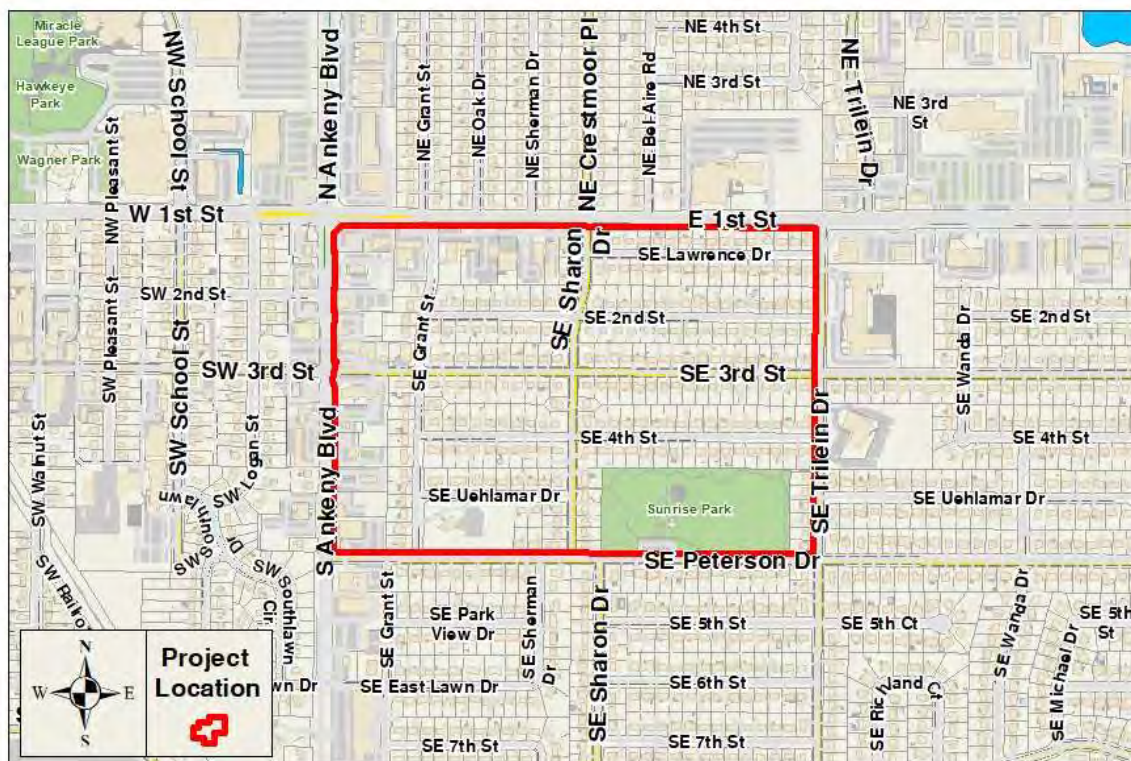
2022 *thru* 2026

Department Storm Water Utility

Contact City Engineer

Project # STM-20-006

Project Name SE 3rd Street Area Storm Sewer Improvements



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Are a 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 2024. New storm sewer along SE Uhlamar 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 2025.

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 2023 through 2024 and construction of the projects in 2024 through 2025. The construction cost estimate for 2024 includes \$100,000 of water main replacement (upgrade existing 4" to new 8") along SE 4th Street.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		160,000				160,000
Engineering-Construction Services			260,000	90,000		350,000
Construction Costs			1,050,000	1,150,000		2,200,000
Total		160,000	1,310,000	1,240,000		2,710,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated		160,000	910,000	840,000		1,910,000
Storm Water Fund			400,000	400,000		800,000
Total		160,000	1,310,000	1,240,000		2,710,000

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 staff time needed to address drainage issues and concerns in this area of the City.

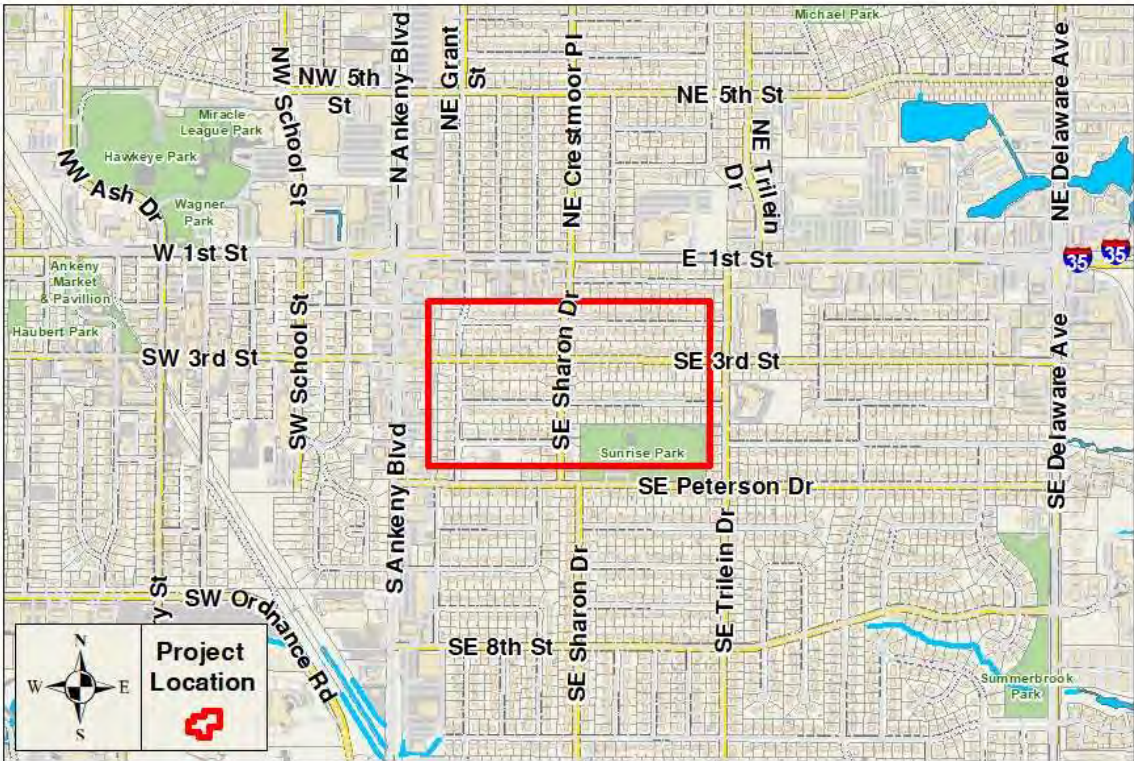
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs				-1,000	-2,000	-3,000
Total				-1,000	-2,000	-3,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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	2022	2023	2024	2025	2026	Total
Engineering-Design	25,000					25,000
Construction Costs	150,000					150,000
Land/ROW Acquisition	15,000					15,000
Total	190,000					190,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated	190,000					190,000
Total	190,000					190,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs		-1,000	-1,000	-1,000	-1,000	-4,000
Total		-1,000	-1,000	-1,000	-1,000	-4,000

City of Ankeny, Iowa

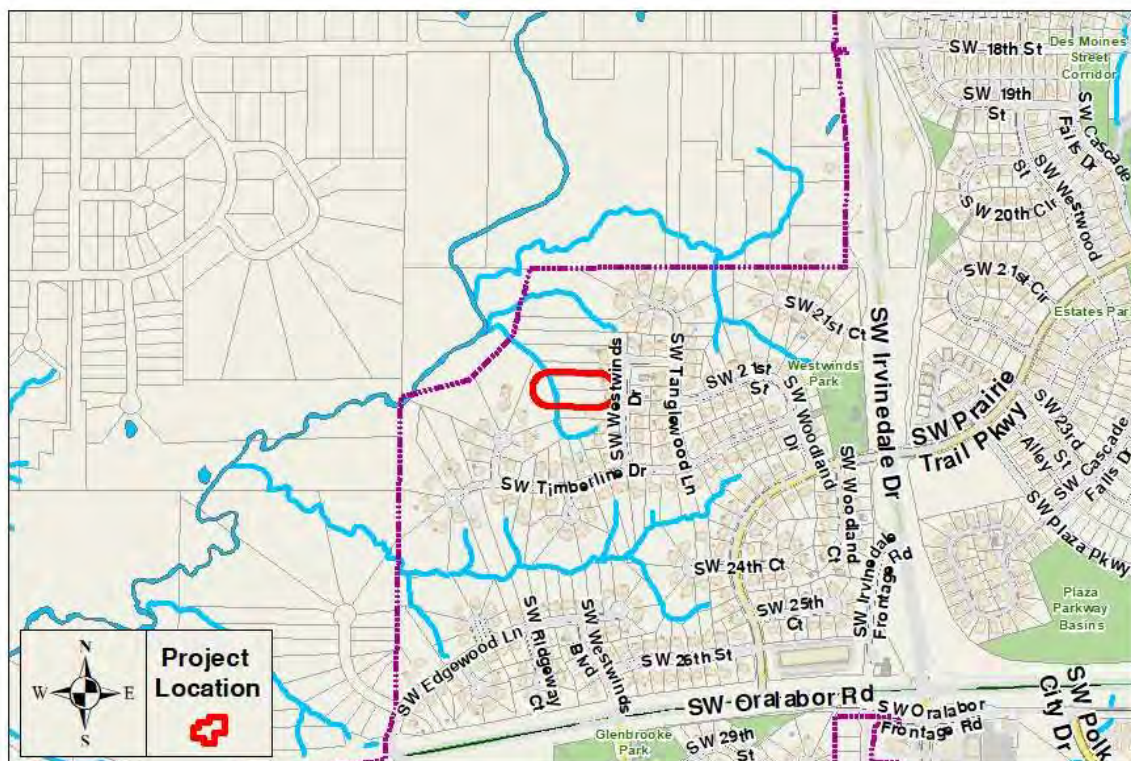
2022 *thru* 2026

Department Storm Water Utility

Contact City Engineer

Project # STM-21-002

Project Name Westwinds Storm Sewer Extension



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 with the wetland. The wetland will be designed in 2022 and constructed in 2023. The likely funding sources for the design and construction of this project include grants from NRCS, IDALS and Polk County.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	150,000					150,000
Construction Costs		750,000				750,000
Total	150,000	750,000				900,000
Funding Sources	2022	2023	2024	2025	2026	Total
County Contributions		100,000				100,000
Other Grants	150,000	650,000				800,000
Total	150,000	750,000				900,000

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.

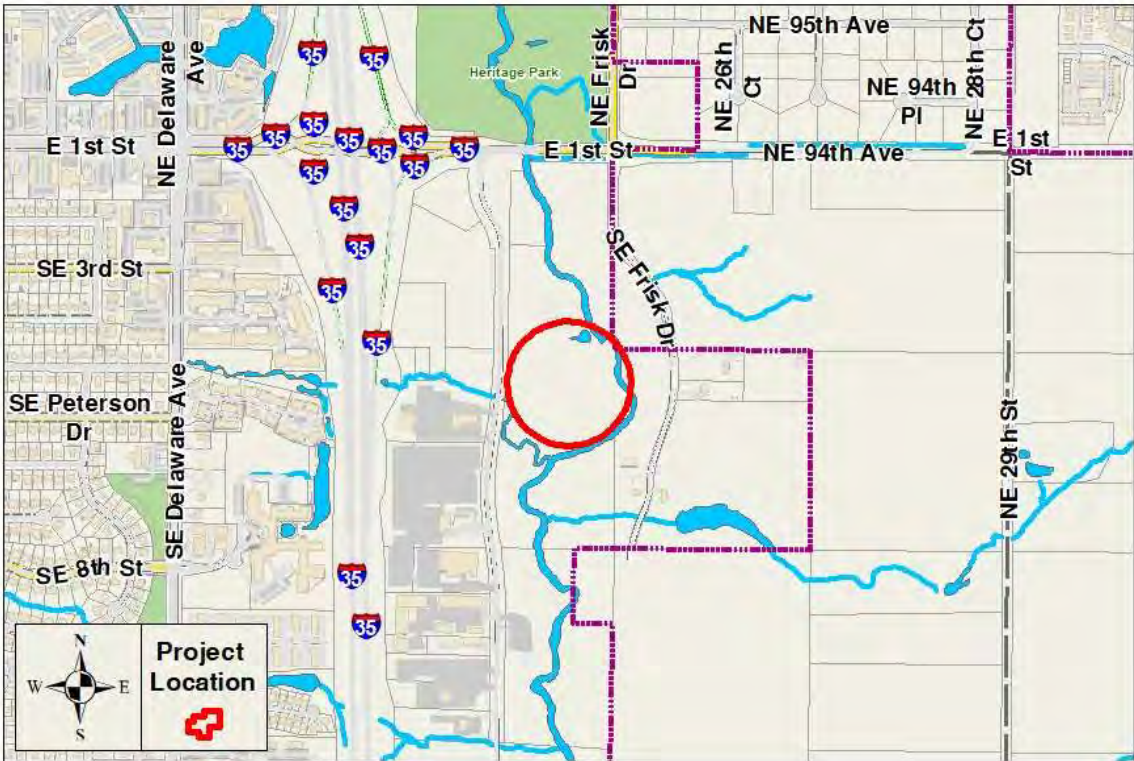
Budget Item s	2022	2023	2024	2025	2026	Total
Maintenance Costs					5,000	5,000
Total					5,000	5,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 may 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 and survey in 2025 (\$30,000), design in 2026 (\$120,000), and construction in 2027 (\$1,250,000).

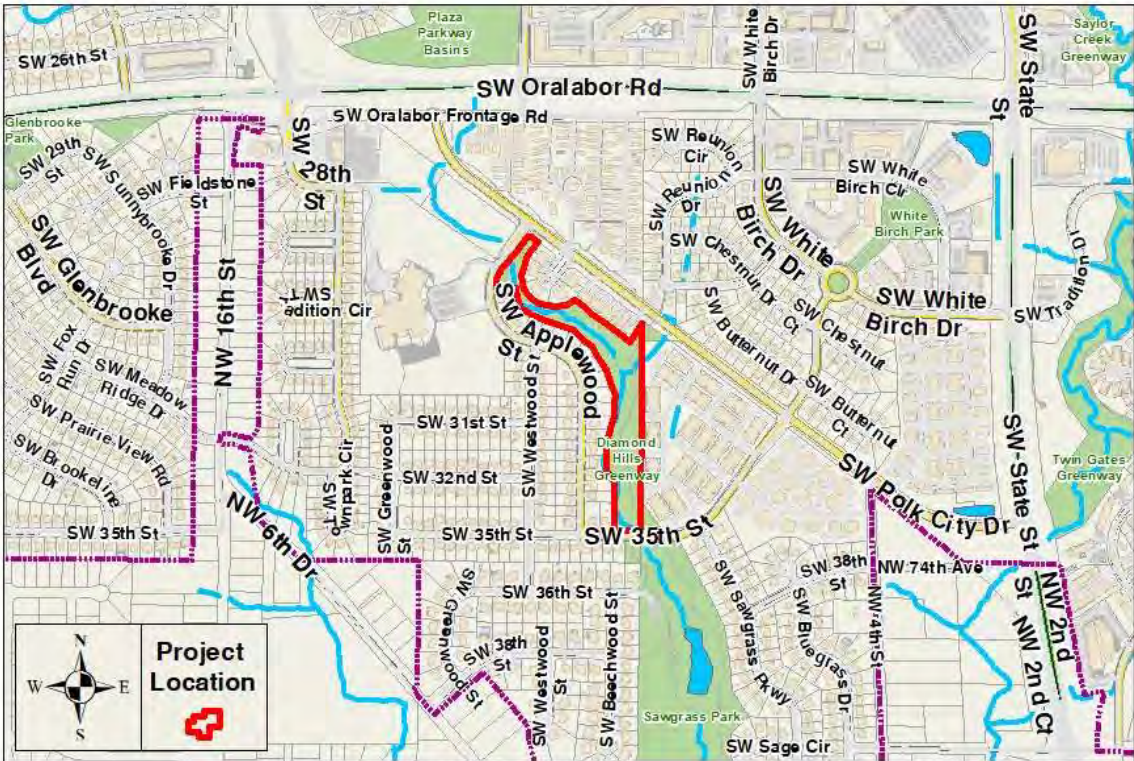
Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design				30,000	120,000	150,000
Total				30,000	120,000	150,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated				30,000	120,000	150,000
Total				30,000	120,000	150,000

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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-E 1st Street

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, and extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the concept study and survey to be completed in 2026 (\$30,000), design in 2027 (\$180,000), and construction in 2028 (\$1,700,000).

Expenditures	2022	2023	2024	2025	2026	Total
Planning Study					30,000	30,000
Total					30,000	30,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated					30,000	30,000
Total					30,000	30,000

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.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

Project #	STM-22-003
Project Name	Four Mile Creek Channel Stabilization-E 1st Street



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 concept study and survey to be completed in 2026 (\$20,000), design in 2027 (\$40,000), and construction in 2028 (\$325,000).

Expenditures	2022	2023	2024	2025	2026	Total
Planning Study					20,000	20,000
Total					20,000	20,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated					20,000	20,000
Total					20,000	20,000

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.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 and survey to be completed in 2026 (\$60,000), design in 2027 (\$360,000), and construction in 2028 (\$3,400,000).

Expenditures	2022	2023	2024	2025	2026	Total
Planning Study					60,000	60,000
Total					60,000	60,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - Storm Water Abated					60,000	60,000
Total					60,000	60,000

Budget Impact/Other

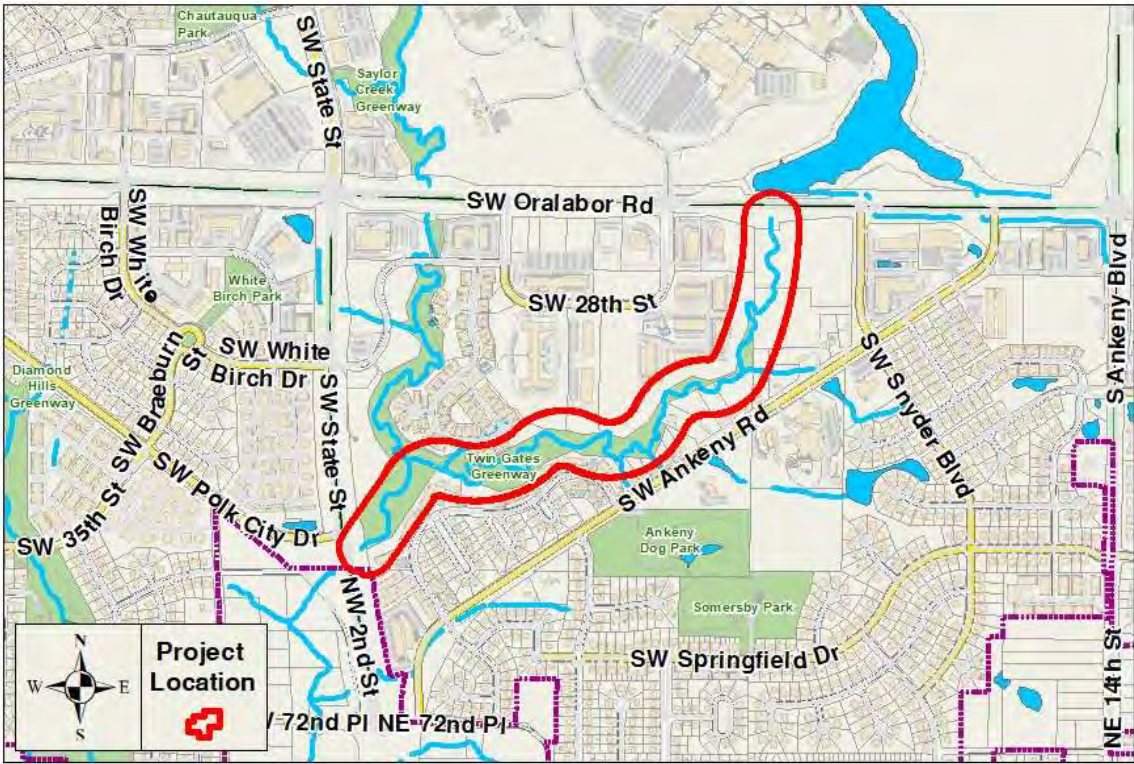
After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Storm Water Utility
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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): 2022 - \$250,000 (Remaining Phase 1 Construction) and \$10,000 (Remaining Phase 1 Construction Engineering) and \$10,000 (Remaining Phase 2 Design Engineering) and \$15,000 (Initial Phase 2 Construction – Storm Sewer Outfall Only); 2023 - \$490,000 (Phase 2 Construction) and \$15,000 (Phase 2 Construction Engineering) and \$20,000 (Phase 3 Design Engineering); 2024 - \$400,000 (Phase 3 Construction) and \$15,000 (Phase 3 Construction Engineering) and \$20,000 (Phase 4 Design Engineering); 2025 - \$455,000 (Phase 4 Construction) and \$15,000 (Phase 4 Construction Engineering)
- 1/3 Original Ankeny Area Utility Improvements (Number of Phases still TBD): 2024 - \$25,000 (Survey and Conceptual Design); 2025 - \$50,000 (Phase 1 Design Engineering); 2026 - \$500,000 (Phase 1 Construction) and \$25,000 (Phase 1 Construction Engineering) and \$25,000 (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 \$750,000 patching project in 2022 with incremental \$50,000 increases each year to \$950,000 in 2026.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		20,000	45,000	50,000	25,000	140,000
Engineering-Construction Services		15,000	15,000	15,000	25,000	70,000
Construction Costs	765,000	1,290,000	1,250,000	1,355,000	1,450,000	6,110,000
Total	765,000	1,325,000	1,310,000	1,420,000	1,500,000	6,320,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	265,000	1,325,000	1,310,000	1,420,000	1,500,000	5,820,000
Road Use Tax Fund	500,000					500,000
Total	765,000	1,325,000	1,310,000	1,420,000	1,500,000	6,320,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs	-36,000	-48,000	-60,000	-72,000	-84,000	-300,000
Total	-36,000	-48,000	-60,000	-72,000	-84,000	-300,000

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 has historically focused on the HMA overlay of old County rural roadways that are now within the City of Ankeny corporate limits. Near-term future projects would focus on overlaying existing asphalt streets within the interior of the City. These projects are typically designed and construction administered in-house by Engineering Division staff.

The specific projects for 2022 include:

- SE Corporate Woods Drive, SE Four Mile Drive east to City limits, HMA Overlay (\$40,000 cost share with Polk County)
- SW Ordinance Road HMA Overlay, South Ankeny Boulevard to SW Railroad Drive (\$300,000 construction)

Potential future projects:

- TBD with Pavement Management Study
- NE 38th Street from East 1st Street to NE 18th Street – HMA overlay (\$75,000 cost share with Polk County in 2023)
- SW Ordinance Road from SW Railroad Drive to SW Westview Drive – HMA overlay
- NE Frisk Drive from north of East 1st Street to NE 18th Street – HMA overlay (\$60,000 cost share with Polk County in 2024)
- NE 18th Street from NE Frisk Drive to NE Four Mile Drive – HMA overlay (\$55,000 cost share with Polk County in 2024)
- SW Goodwin Street HMA Paving
- NW 5th Street from NW Weigel Drive to NW Irvinedale Drive – HMA overlay or slurry level
- SW Ankeny Road from SW State Street to SW Oralabor Road – HMA overlay or diamond grinding
- NE Delaware Avenue from NE 36th Street to NE 54th Street – HMA overlay or slurry level
- SE Oralabor Road from east of SE Convenience Boulevard to PC – HMA overlay
- NW 54th Street from Irvinedale Drive to Ankeny Boulevard – HMA overlay (\$60,000 cost share with Polk County in 2025)
- Public alleyways between SW Cherry Street and SW Walnut Street, from West 1st Street to SW 3rd Street – 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	2022	2023	2024	2025	2026	Total
Construction Costs	340,000	300,000	300,000	300,000	300,000	1,540,000
Total	340,000	300,000	300,000	300,000	300,000	1,540,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	340,000	300,000	300,000	300,000	300,000	1,540,000
Total	340,000	300,000	300,000	300,000	300,000	1,540,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs	-8,000	-10,000	-12,000	-14,000	-16,000	-60,000
Total	-8,000	-10,000	-12,000	-14,000	-16,000	-60,000

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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.

2022: The pavement preservation work will consist of sawing, cleaning, and filling existing joints and cracks and performing partial depth repair (PDR) patches on the northbound lanes of SW State Street from SW Oralabor Road to SW Ordnanace Road.

2023 – 2026: The pavement preservation work will consist of: (1) sawing, cleaning, and filling existing joints and cracks, and/or (2) partial depth repair (PDR) patches of deteriorated concrete 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 2022, the allocation will be used for necessary maintenance repairs to the northbound lanes of SW State Street, while in future years, it will be used for joint and crack filling and/or partial depth repair to neighborhood streets 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 methods such as full depth patching and complete reconstruction.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	350,000		750,000		750,000	1,850,000
Total	350,000		750,000		750,000	1,850,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	350,000		750,000		750,000	1,850,000
Total	350,000		750,000		750,000	1,850,000

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. cold patching) on the existing pavements.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	-8,000	-9,000	-11,000	-12,000	-14,000	-54,000
Total	-8,000	-9,000	-11,000	-12,000	-14,000	-54,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 streets determined to be in poor to very poor condition as rated by the Pavement Condition Index (PCI). The primary focus has been on collector streets as identified in the 2008 Pavement Management Study. However, there is also a definite need to reconstruct residential streets. Projects generally include pavement replacement along with minor utility replacements, including some under-sized or deteriorated water main replacement when below street improvements.

- 2022: SE Peachtree Drive, SE Magnolia Drive to SE Oralabor Road – \$750,000 (construct); NW 5th Street, NW Greenwood Street to NW Applewood Street – \$650,000 (construct); SE Creekview Drive, SE Oralabor Road to 400 ft. north of SE Tones Drive – \$100,000 (consultant design + survey)
- 2023: SE Creekview Drive, SE Oralabor Road to 400 ft. north of SE Tones Drive – \$650,000 (construct + consultant inspect); SE 8th Street, SE Rio Circle to SE Wanda Drive – \$550,000 (construct)
- 2024: NW Westwood Street, NW 5th Street to NW 9th Street – \$750,000 (construct); NW Ash Drive, PRSC North Access to NW 18th Street – \$600,000 (construct)
- 2025-2026: 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	2022	2023	2024	2025	2026	Total
Engineering-Design	100,000					100,000
Engineering-Construction Services		50,000				50,000
Construction Costs	1,400,000	1,150,000	1,350,000	1,500,000	1,500,000	6,900,000
Total	1,500,000	1,200,000	1,350,000	1,500,000	1,500,000	7,050,000

Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	500,000					500,000
G.O. Bonds		700,000	1,350,000	500,000	1,500,000	4,050,000
Road Use Tax Fund	1,000,000	500,000		1,000,000		2,500,000
Total	1,500,000	1,200,000	1,350,000	1,500,000	1,500,000	7,050,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs	-15,000	-20,000	-25,000	-30,000	-35,000	-125,000
Total	-15,000	-20,000	-25,000	-30,000	-35,000	-125,000

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-004

Project Name Annual Street Replacement Program



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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.

Justification

The traffic study 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 better traffic mobility as the City continues to grow. The study also recommended major improvements to the NE Delaware Avenue and NE 18th Street intersection. 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 an urban arterial of this length. The project is planned for 2023 and 2024 construction, with property acquisitions and final design in 2022, and landscaping improvements in 2025. Federal STBG-Swap funding in the amount of \$3,000,000 has been obtained through the Des Moines Area MPO. The City has also applied for \$500,000 of Traffic Safety Improvement Program (TSIP) funding through the Iowa DOT.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	575,000					575,000
Engineering-Construction Services		250,000	325,000	25,000		600,000
Construction Costs		3,700,000	4,775,000	100,000		8,575,000
Street Lighting		125,000	100,000			225,000
Land/ROW Acquisition	125,000					125,000
Total	700,000	4,075,000	5,200,000	125,000		10,100,000

Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	700,000	1,300,000				2,000,000
FHWA/IDOT Grants		500,000				500,000
G.O. Bonds		775,000	3,700,000	125,000		4,600,000
MPO/STBG Grants		1,500,000	1,500,000			3,000,000
Total	700,000	4,075,000	5,200,000	125,000		10,100,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs			1,500	3,500	3,500	8,500
Utilities			2,500	4,500	4,500	11,500
Total			4,000	8,000	8,000	20,000

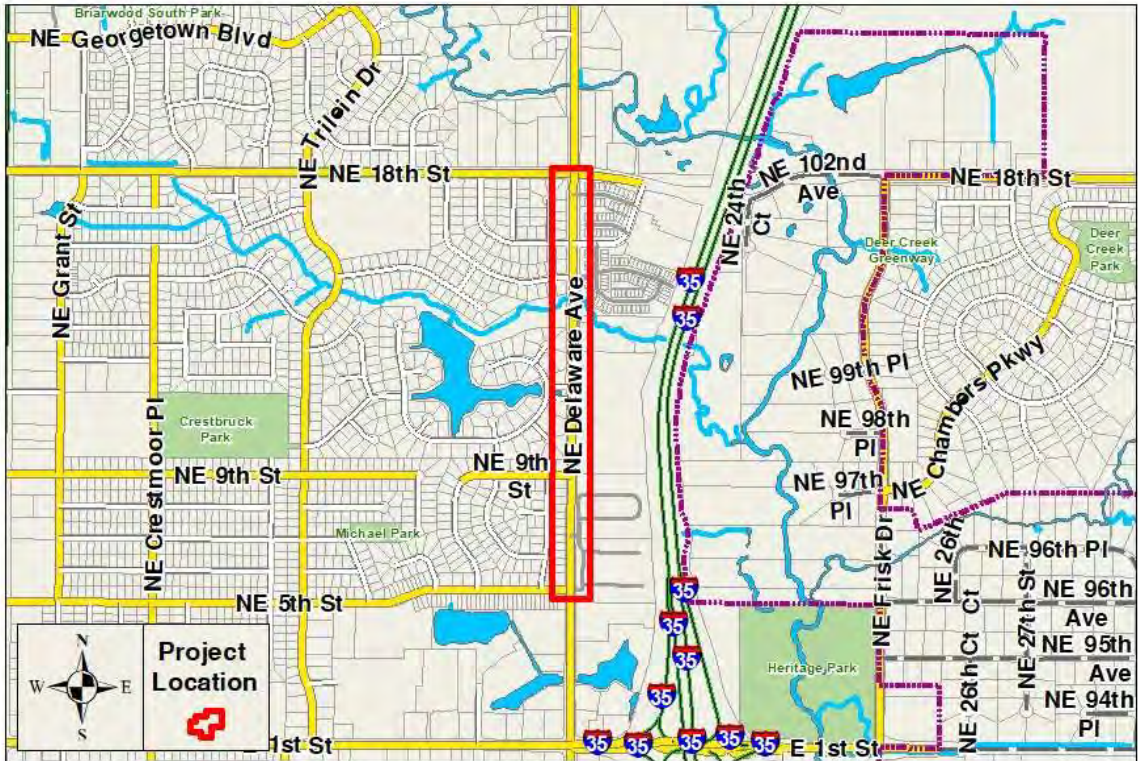
2022 - 2026 Capital Improvement Program

City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

Project #	STR-14-006
Project Name	NE Delaware Avenue Reconstruction-5th to 18th



2022 - 2026 Capital Improvement Program

2022 thru 2026

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 Ir vinedal e Dr I ntersection

Description

Reconstruction of the SW Oralabor Road/Iowa Highway 415 and SW Irvinedale Drive intersection. The project includes a traffic study and surveying in 2024, design engineering services in 2025, and construction engineering services and project construction in 2026. Since SW Oralabor Road/Iowa Highway 415 is a joint jurisdictional roadway, the proposed improvements would need to be coordinated with the Iowa DOT.

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 2016-2020, there were more than 50 crashes at this intersection. It is anticipated that the City would apply for Traffic Safety Improvement Program (TSIP) and possibly Iowa Clean Air Attainment Program (ICAAP) funding through the Iowa DOT.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design			100,000	400,000		500,000
Engineering-Construction Services					300,000	300,000
Construction Costs					3,150,000	3,150,000
Street Lighting					50,000	50,000
Total			100,000	400,000	3,500,000	4,000,000
Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants					500,000	500,000
G.O. Bonds - TIF Abated			100,000	400,000	3,000,000	3,500,000
Total			100,000	400,000	3,500,000	4,000,000

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.

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-16-003

Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-004

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

Description

Reconstruction of West 1st Street from just east of SW Scott Street to just east of SW Logan Street. The existing four-lane street is being removed and replaced with a five-lane street that includes a center two-way left turn lane in 2021 and 2022. Additional improvements include sanitary/water/storm upgrades, replacement of the traffic signals at the NW Ash Drive/SW Cherry Street and NW/SW School Street intersections, a DART bus station turn-out lane, and an 8-ft. wide sidewalk along the north side of the street.

Justification

This project will reconstruct West 1st Street from just east of SW Scott Street to just east of SW Logan Street. The current undivided four-lane street is inefficient and unsafe, as 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 patching and was approaching the end of its useful life by 2020. The project's construction is being completed over the course of two years, in 2021 and 2022, due to the overall duration needed to reconstruct an urban arterial and the time constraints necessitated by maintaining traffic flowing in the vicinity of Parkview Middle School. Federal STBG-Swap funding in the amount of \$2,530,000 has been obtained through the Des Moines Area MPO. In addition, TSIP funding in the amount of \$500,000 has been obtained through the Iowa DOT. The construction costs include approximately \$175,000 of sanitary sewer improvements and \$325,000 of water main improvements.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	450,000					450,000
Construction Costs	2,400,000					2,400,000
Street Lighting	150,000					150,000
Total	3,000,000					3,000,000

Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants	250,000					250,000
G.O. Bonds - TIF Abated	1,485,000					1,485,000
MPO/STBG Grants	1,265,000					1,265,000
Total	3,000,000					3,000,000

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 and existing traffic signals 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 or maintain outdated traffic signal equipment. The new street lights will result in additional electric power costs for the City.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	500	1,000	1,000	1,000	1,000	4,500
Utilities		3,000	3,000	3,000	3,000	12,000
Total	500	4,000	4,000	4,000	4,000	16,500

City of Ankeny, Iowa

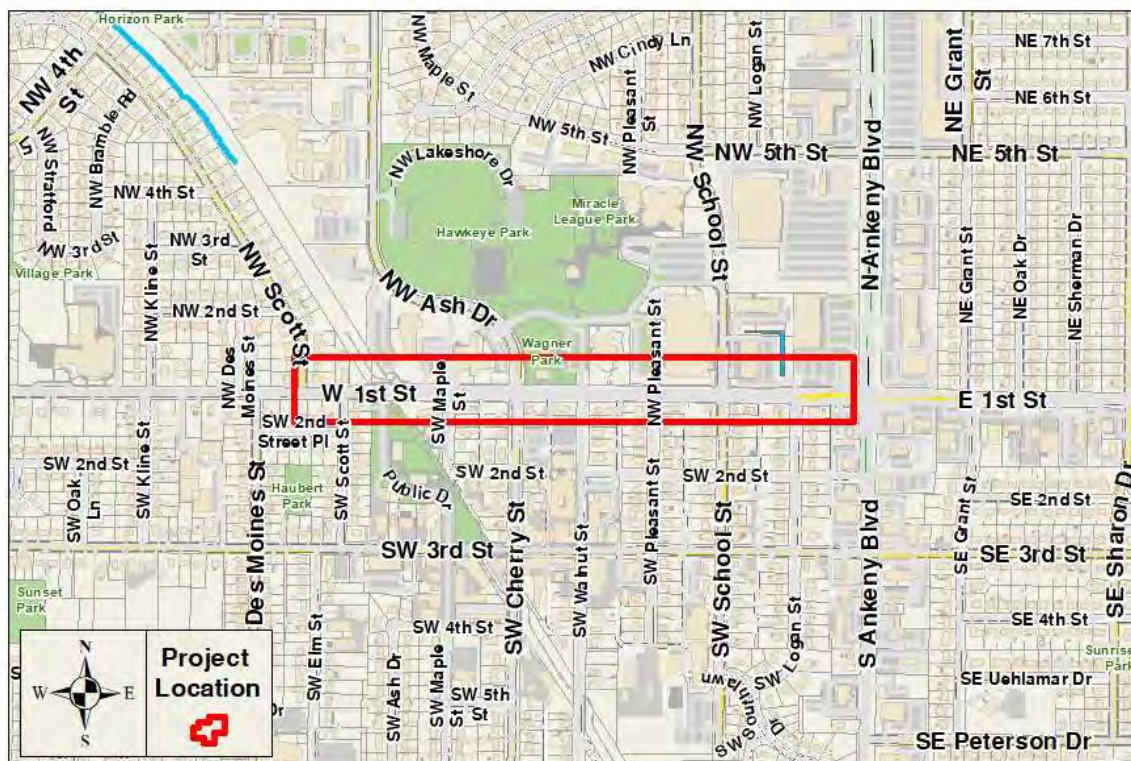
2022 *thru* 2026

Department Public Works

Contact City Engineer

Project # STR-16-004

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 North Ankeny Boulevard Median and Landscaping Improvements

Description

Removing existing landscaping in the medians on North Ankeny Boulevard/US Highway 69 from north of 1st Street to 18th Street and replacing with turfgrass and low maintenance landscaping and plantings. The proposed locations include the intersections with 5th Street, 9th Street, 11th Street and 18th Street. Also, the medians at the 18th Street intersection will be modified to improve left-turn drivers' sightlines to on-coming opposing traffic. North Ankeny Boulevard/US Highway 69 is a joint jurisdictional street, so the proposed improvements will be coordinated with the Iowa DOT.

Justification

An action item for the Public Works Department from the 2016 Strategic Plan was to develop concepts for improving the landscaping in the City's rights-of-way and medians. The purpose of this project is to improve the landscaping, sustainability, aesthetics, and safety within the public right-of-way of North Ankeny Boulevard. 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 at the 18th Street intersection will also be coordinated with Iowa DOT. The pedestrian ramps at the four intersections will be reconstructed to Americans with Disabilities Act (ADA) standards and accessible pushbuttons (APS) will be installed. Application will be made to the Iowa DOT's Pedestrian Curb Ramp Construction program for partial funding of the pedestrian ramp upgrades. The proposed schedule assumes the median and intersection paving and streetscaping improvements will be constructed in 2024, and the landscaping and irrigation improvements will be constructed in 2025. The project's construction schedule may need to be adjusted because the Iowa DOT is proposing pavement repairs on US Highway 69 in the same area within the next few years.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		80,000				80,000
Engineering-Construction Services			90,000	25,000		115,000
Construction Costs			1,100,000	350,000		1,450,000
Total		80,000	1,190,000	375,000		1,645,000

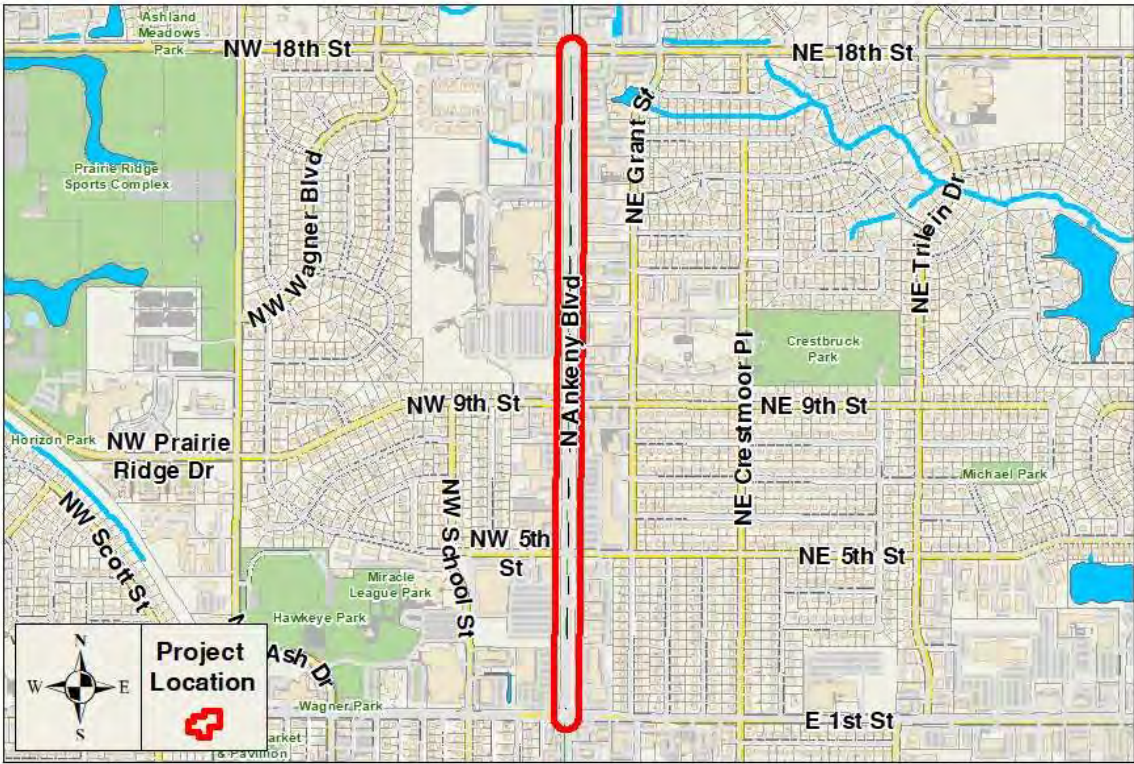
Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants			125,000			125,000
G.O. Bonds		40,000	532,500	187,500		760,000
Hotel/Motel Tax Fund		40,000	532,500	187,500		760,000
Total		80,000	1,190,000	375,000		1,645,000

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 Work 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	2022	2023	2024	2025	2026	Total
Maintenance Costs				1,500	1,500	3,000
Utilities				1,000	1,000	2,000
Total				2,500	2,500	5,000

Project #	STR-18-001
Project Name	North Ankeny Boulevard Median and Landscaping Impr



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 involves the reconstruction of NW 36th Street from NW Irvinedale Drive to NW Abilene Road. The project includes the removal of the existing two-lane asphalt rural roadway and 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. Also included in this project is the reconstruction and traffic signalization of the NW 36th Street and NW Irvinedale Drive intersection as well as adding turn lanes to the north, south, and west legs of the intersection. The east leg of the intersection will be widened to set up the future four-lane divided street with a left turn lane. Also included in this project is the addition of left turn lanes to the west and east legs of the NW 36th Street and NW Abilene Road intersection to provide better traffic flow for Rock Creek Elementary.

Justification

It is anticipated that traffic volumes will drive the need to reconstruct 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 to increase due to Rock Creek Elementary and adjacent current and future development, which will likely advance the deterioration of the existing asphalt rural roadway. Survey and preliminary design are planned for 2024, final design and right-of-way acquisition are planned for 2025, construction is planned for 2026, and landscaping improvements are planned for 2027.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design			150,000	500,000		650,000
Engineering-Construction Services					450,000	450,000
Construction Costs					4,850,000	4,850,000
Street Lighting					150,000	150,000
Land/ROW Acquisition				25,000		25,000
Total			150,000	525,000	5,450,000	6,125,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds			150,000	525,000	5,450,000	6,125,000
Total			150,000	525,000	5,450,000	6,125,000

Budget Impact/Other

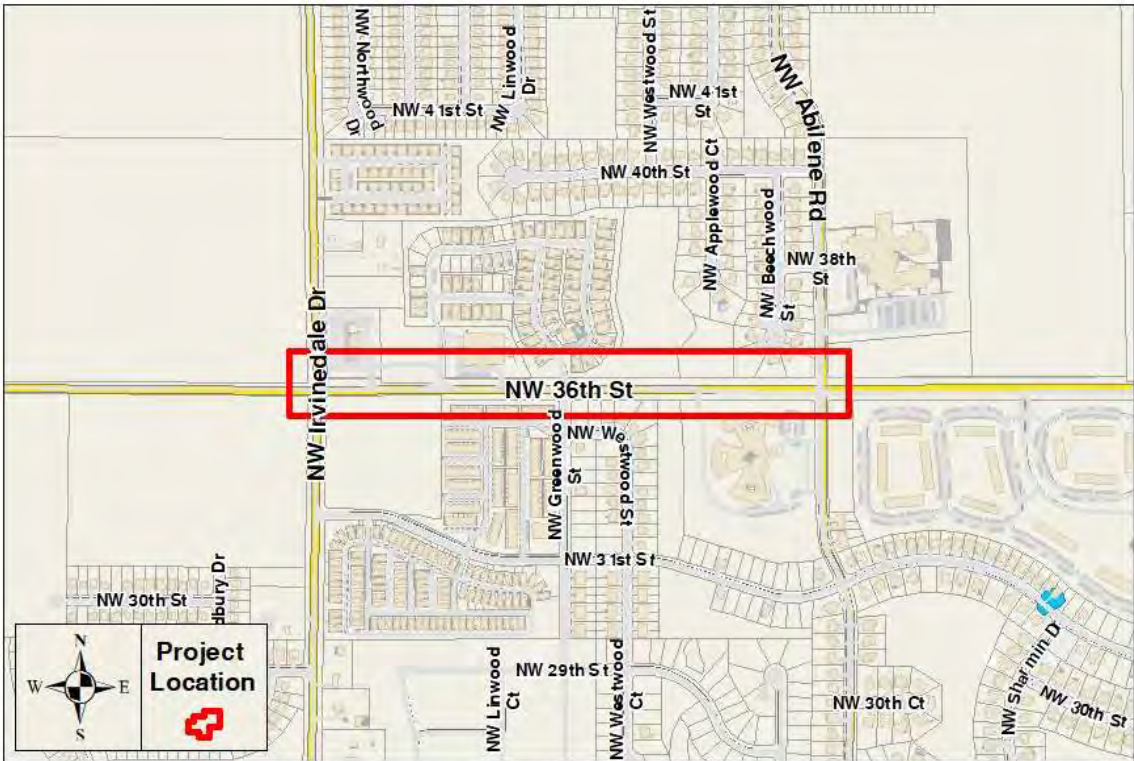
The additional public street pavement and 8 ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, replacing the existing asphalt roadway with a concrete street will reduce annual maintenance costs 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.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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. This new roadway alignment will connect the proposed extension of NW 18th Street from NW Weigel Drive to NW Spruce Drive west 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 \$1,575,000 of the estimated \$6,000,000 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 2026, design and right-of-way acquisition in 2027, and construction in 2028.

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	2022	2023	2024	2025	2026	Total
Engineering-Design					50,000	50,000
Total					50,000	50,000
Funding Sources	2022	2023	2024	2025	2026	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.

City of Ankeny, Iowa

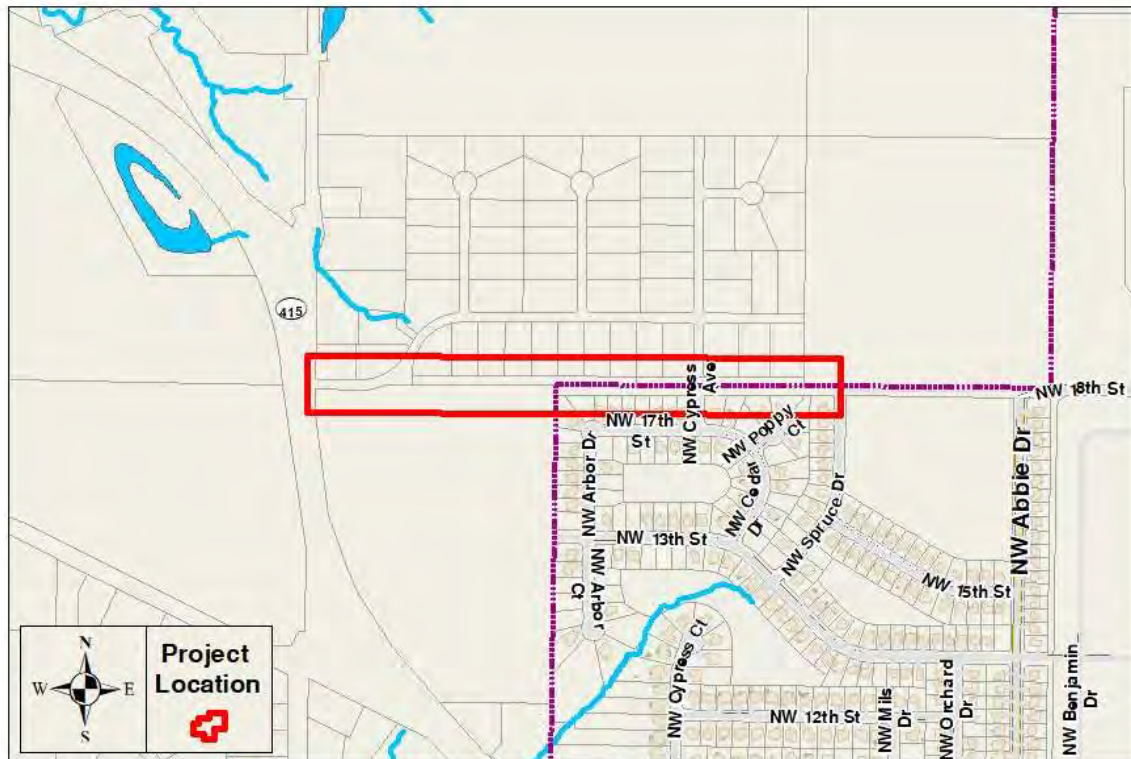
2022 *thru* 2026

Department Public Works

Contact City Engineer

Project # STR-18-004

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-18-005

Project Name Prairie Ridge Sports Complex-Parking Lot Access

Description

Complete construction of access improvements to the existing parking lot in the north part of the Prairie Ridge Sports Complex (PRSC). The parking lot has approximately 700 spaces but a single STOP-controlled access along NW 18th Street.

Justification

This project will improve mobility for ingress and egress traffic using the parking lot in the north part of the PRSC. In particular, exiting the parking lot is difficult because of high traffic volumes on NW 18th Street, which can be a safety concern during severe weather events. An additional safety concern is for pedestrian crossings of NW 18th Street. Given the high usage of the PRSC, additional ingress and egress capacity for the north parking lot would be beneficial. The 2021 concept study identified the preferred improvement 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 at NW State Street and NW Ash Drive. The updated construction cost estimate includes \$100,000 for possible aesthetic enhancements at the access (e.g. landscaping, monument sign). The aesthetic enhancements and associated cost were not included in the previous CIP request.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design				75,000		75,000
Construction Costs				800,000		800,000
Total				875,000		875,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds				875,000		875,000
Total				875,000		875,000

Budget Impact/Other

Widening the PRSC driveway will add pavement maintenance costs for the City's Parks & Recreation Department. Adding a turn lane on NW 18th Street will increase pavement maintenance and snow removal costs for the Public Works Department, as well as maintenance and power costs for the traffic signal.

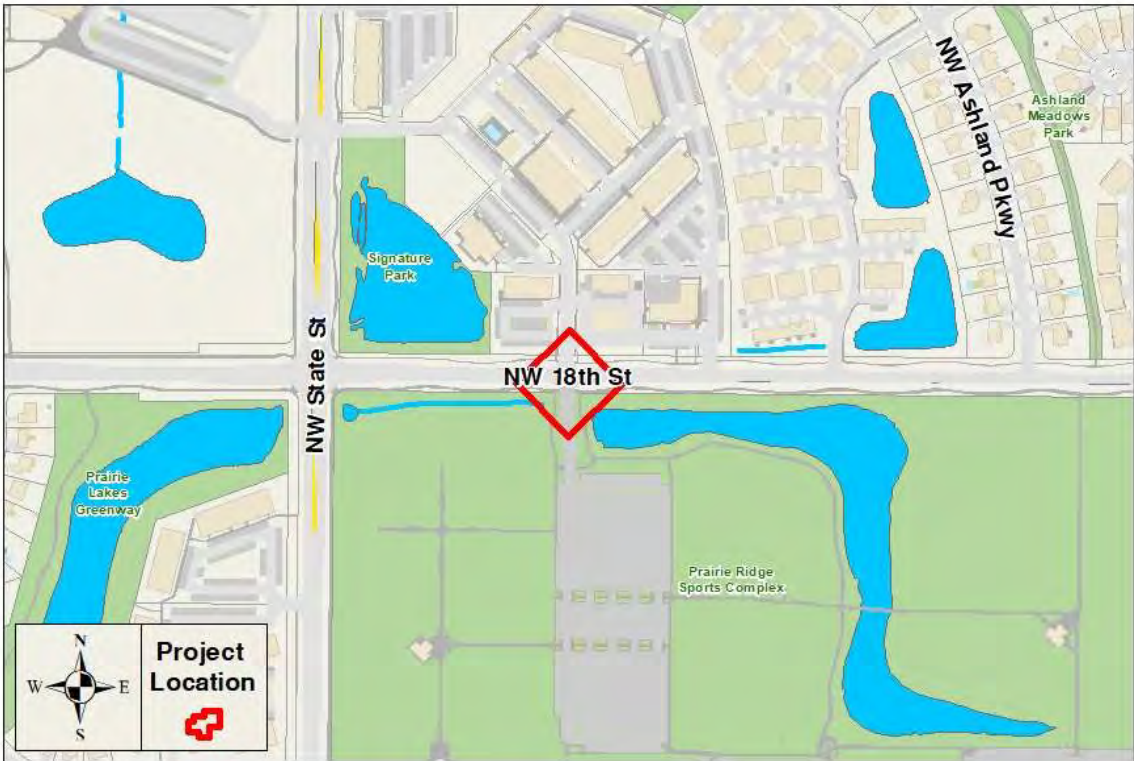
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs					200	200
Utilities					300	300
Total					500	500

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

Project #	STR-18-005
Project Name	Prairie Ridge Sports Complex-Parking Lot Access



2022 - 2026 Capital Improvement Program

2022 thru 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

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	2022	2023	2024	2025	2026	Total
Engineering-Design			90,000			90,000
Engineering-Construction Services				70,000		70,000
Construction Costs				850,000		850,000
Total			90,000	920,000		1,010,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds			90,000	920,000		1,010,000
Total			90,000	920,000		1,010,000

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.

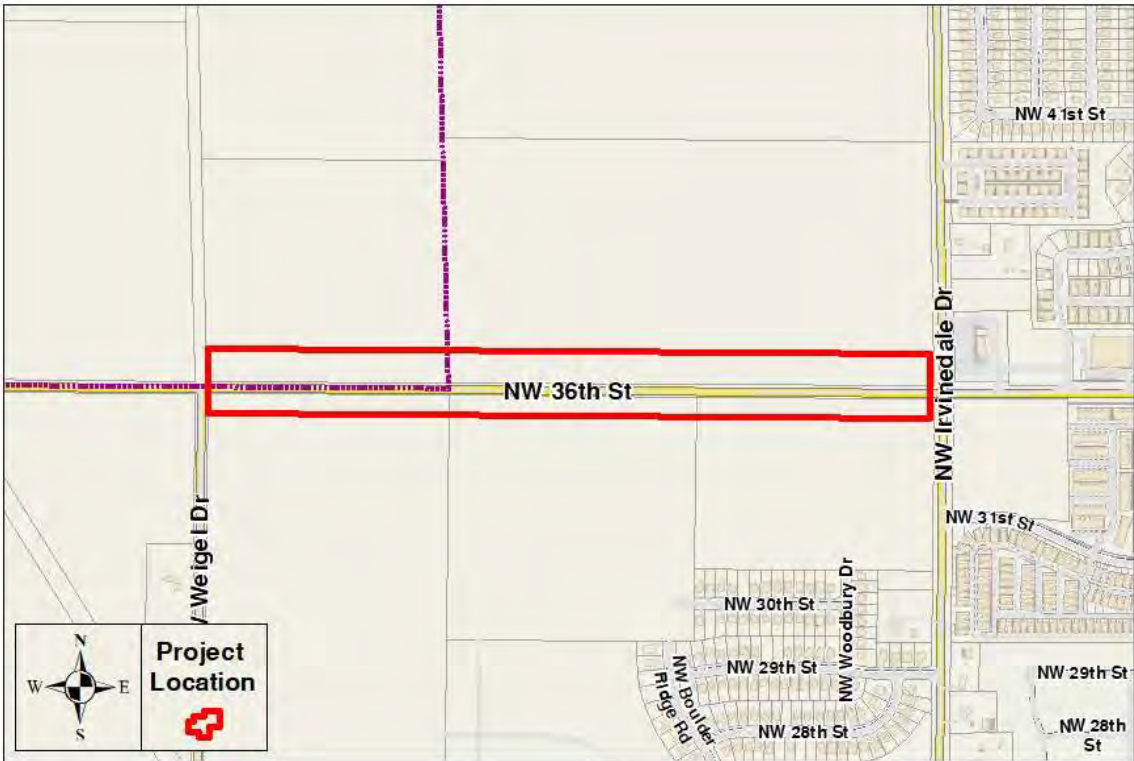
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs					-12,500	-12,500
Total					-12,500	-12,500

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 eastbound and westbound left turn lanes on SW Oralabor Road at the SW Edgewood Lane intersection. Since SW Oralabor Road is also Iowa Highway 415, the project would be coordinated with the Iowa DOT.

Justification

The SW Oralabor Road/Iowa Highway 415 and SW Edgewood 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, so adding left turn lanes at this intersection should improve traffic safety and mobility. Iowa DOT supports the proposed project and said it would be eligible for U-STEP funding.

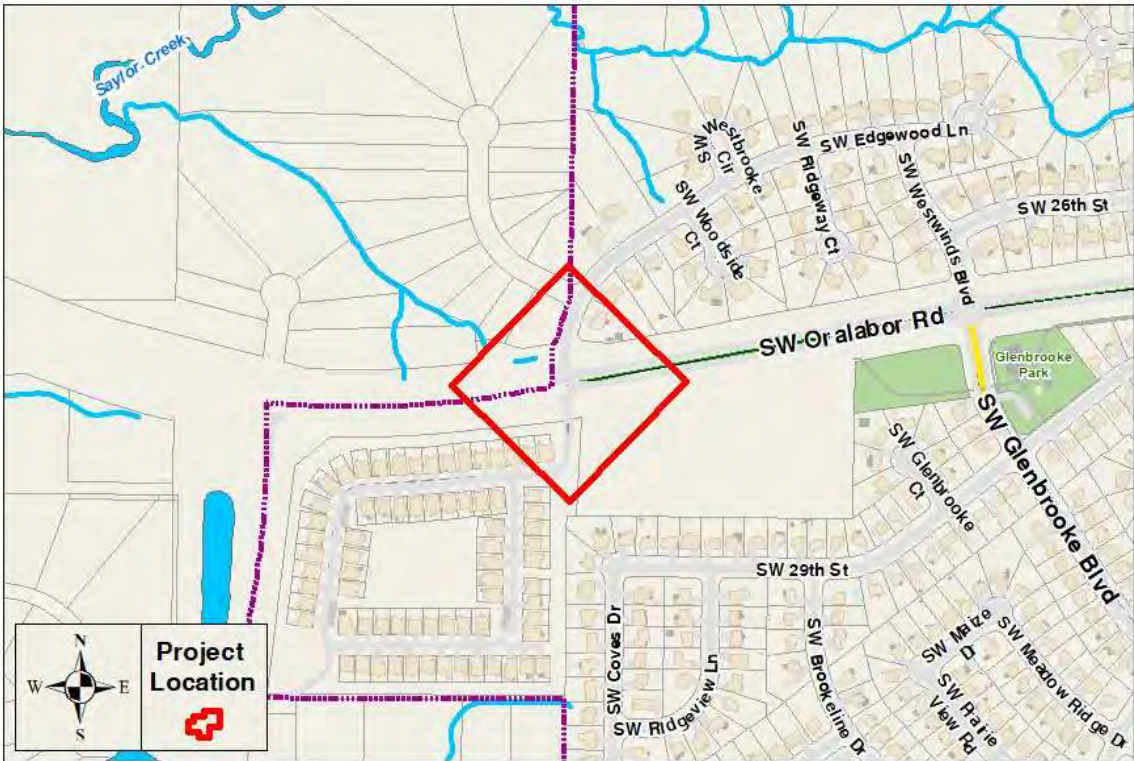
Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		25,000				25,000
Construction Costs		150,000				150,000
Total		175,000				175,000

Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants		75,000				75,000
G.O. Bonds		100,000				100,000
Total		175,000				175,000

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.

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-008

Project Name SE Crosswinds Dr/SE 77th St Improvements-Phase 2

Description

Construction of a new street and addition of a turn lane within the Crosswinds Business Park. SE Crosswinds Drive will extend north from SE 90th Street (County NE 54th Avenue) to SE 77th Street that was constructed with Phase 1. A northbound left turn lane for SE Convenience Boulevard will be constructed on SE 90th Street. An eastbound right turn lane will be constructed at the southwest corner of the intersection of SE Corporate Woods Drive and SE Four Mile Drive. Proposed improvements include two-lane PCC curb-and-gutter paving, storm sewers, sanitary sewers, water mains, sidewalk ramps, entrances, street lights, landscaping, surface restoration and associated roadway construction.

Justification

Phase 2 is proposed at this time to continue to support and facilitate at least two new warehouse/manufacturing developments within the Crosswinds Business Park. The tax base and new jobs generated by these developments will be substantial. These street projects will be constructed in coordination with the adjacent developments, with a portion of the street project costs to be funded by an Iowa DOT RISE grant and the other portion paid by developers.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	155,600					155,600
Construction Costs	2,428,400					2,428,400
Total	2,584,000					2,584,000

Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants	1,051,000					1,051,000
Private Contributions	1,533,000					1,533,000
Total	2,584,000					2,584,000

Budget Impact/Other

After completion, the added streets and utilities will be the responsibility of the City to maintain. The annual maintenance costs will be the responsibility of the Public Works and Municipal Utilities departments. The additional street lights along the roadways will also be an additional City expense annually.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	1,000	2,500	2,500	2,500	2,500	11,000
Utilities	150	300	300	300	300	1,350
Total	1,150	2,800	2,800	2,800	2,800	12,350

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

Project #	STR-19-008
Project Name	SE Crosswinds Dr/SE 77th St Improvements-Phase 2



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-20-003

Project Name NW 36th St and NW State St Interim Improvements

Description

Interim improvements at the intersection of NW 36th Street and NW State Street to include the installation of a span-wire traffic signal and the widening of NW 36th Street to provide an interim westbound left-turn lane and a permanent eastbound right-turn lane.

Justification

The continued growth on the City's northwest side will require a traffic signal at the NW 36th Street and NW State Street intersection along with a dedicated left turn lane for westbound NW 36th Street at the intersection within the next year. The proposed widening and signalization project is considered an interim improvement until the NW 36th Street corridor is widened to a four-lane divided arterial street in this area and a permanent traffic signal is installed. During the past year, further traffic analysis of future conditions identified the need for an eastbound right-turn lane to provide needed capacity for the high-turning volume. This right-turn lane will be constructed as a permanent intersection improvement, and is expected to result in acceptable conditions until the ultimate widening of NW 36th Street or the NW State Street Extension projects are implemented.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	75,000					75,000
Construction Costs	700,000					700,000
Land/ROW Acquisition	10,000					10,000
Total	785,000					785,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	785,000					785,000
Total	785,000					785,000

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 traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. A new traffic signal will result in additional electric power costs to the City.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		500	500	500	500	2,000
Utilities		300	300	300	300	1,200
Total		800	800	800	800	3,200

Project #	STR-20-003
Project Name	NW 36th St and NW State St Interim Improvements



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 the reconstruction of the PCC pavement on NW 18th Street from just west of NW Ash Drive to approximately 250 feet west of North Ankeny Boulevard. This project includes removing subgrade and adding modified subbase and longitudinal subdrains along with new pavement markings and pedestrian ramp improvements along the corridor. The traffic study, which is currently in progress, will determine the proposed cross section and geometry for the street. This project also includes consultant engineering survey, design, and construction 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	2022	2023	2024	2025	2026	Total
Engineering-Design	300,000					300,000
Engineering-Construction Services		200,000				200,000
Construction Costs		2,500,000				2,500,000
Street Lighting		75,000				75,000
Land/ROW Acquisition	5,000					5,000
Total	305,000	2,775,000				3,080,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	305,000	2,775,000				3,080,000
Total	305,000	2,775,000				3,080,000

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	2022	2023	2024	2025	2026	Total
Maintenance Costs			-7,500	-7,500	-7,500	-22,500
Utilities			-1,500	-1,500	-1,500	-4,500
Total			-9,000	-9,000	-9,000	-27,000

City of Ankeny, Iowa

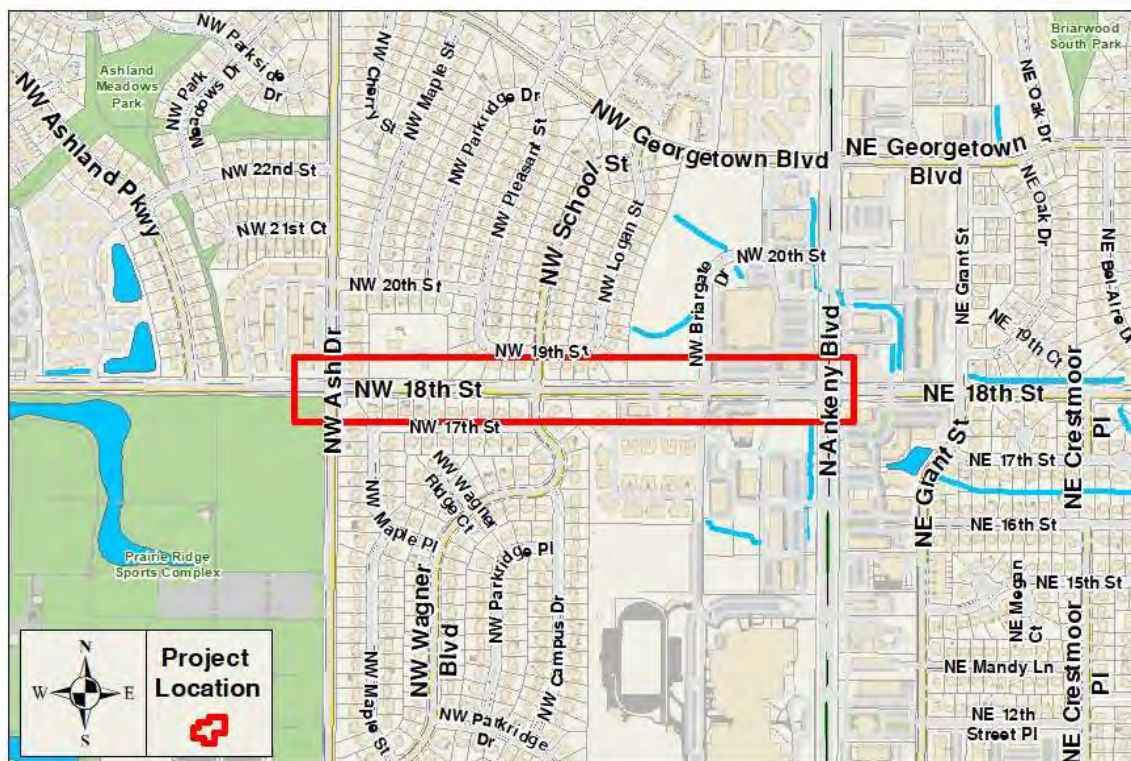
2022 *thru* 2026

Department Public Works

Contact City Engineer

Project # STR-20-004

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 is the first of multiple phases to widen NW 36th Street, between North Ankeny Boulevard and NW Irvinedale Drive, from two lanes to four lanes with medians, dedicated left turn lanes, and traffic signals at the major intersections. For this first phase, NW 36th Street will be widened to four lanes from North Ankeny Boulevard to just west of NW Ash Drive with left turn lanes at the major intersections, including NW Ash Drive. The project will also include adding a traffic signal at the NW Ash Drive intersection and replacing the existing traffic signal at the North Ankeny Boulevard intersection. The project is planned for 2022 construction with landscaping improvements at the NW 36th Street and North Ankeny Boulevard intersection in 2023.

Justification

Traffic volumes on NW 36th Street have increased rapidly during the past few years, especially between NW Ash Drive and North Ankeny Boulevard, where traffic volumes increased by approximately 22% from 2018 to 2019. This has resulted in decreased traffic operations along this segment of NW 36th Street. The current two-lane, undivided street has traffic mobility and safety issues because left turning vehicles block the through traffic lanes. This results in traffic backups and increased accident potential along the corridor. Traffic volumes on NW 36th Street are expected to continue increasing in the future with the on-going development in the northwest part of the City; therefore, an increase in traffic capacity, mobility, and safety issues will likely occur if improvements are not made during the next few years. The estimated construction costs include approximately \$350,000 of water main improvements.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	275,000	25,000				300,000
Construction Costs	3,900,000	50,000				3,950,000
Street Lighting	50,000					50,000
Total	4,225,000	75,000				4,300,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	4,225,000	75,000				4,300,000
Total	4,225,000	75,000				4,300,000

Budget Impact/Other

The added 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 traffic signals and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities Departments. The new streetlights and traffic signals will result in additional electric power costs for the City.

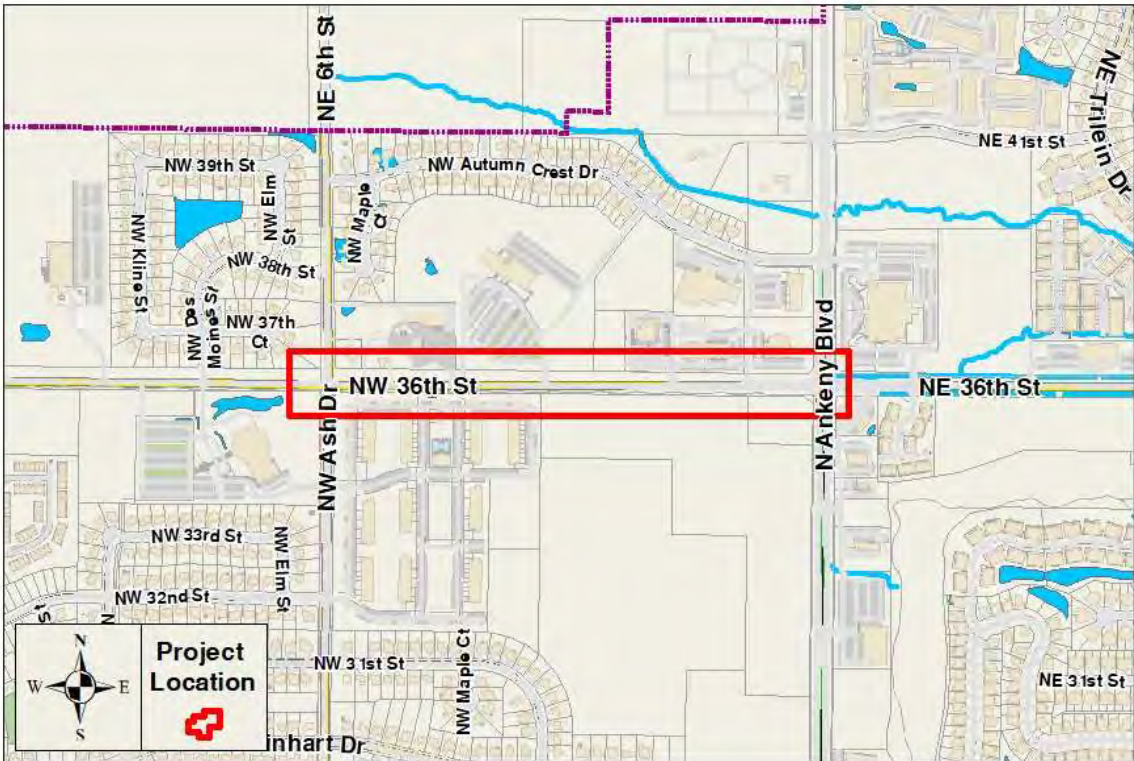
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		2,000	2,000	2,000	2,000	8,000
Utilities		1,300	1,300	1,300	1,300	5,200
Total		3,300	3,300	3,300	3,300	13,200

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-20-006

Project Name SE Delaware Avenue Widening

Description

This project involves pavement widening to add a lane along the west side of SE Delaware Avenue from the City limits north approximately 2,000 feet to where the existing asphalt street becomes concrete. The widening would create a three-lane section with a center two-way left turn lane (TWLTL). The project also includes milling the existing asphalt surface and a Hot Mix Asphalt (HMA) overlay to provide a uniform driving surface. Adding a 3-ft. wide HMA shoulder and 5-ft. wide granular shoulder, potential ditch relocations and/or pipe culvert installations along the west side of the street, and new pavement markings and symbols are also included in the project.

Justification

This project will improve traffic mobility, safety, and pavement conditions in a developing industrial and commercial area of the City. In 2022, Polk County is planning to widen County NE 22nd Street (SE Delaware Avenue) to a three-lane section with a center TWLTL and HMA overlay from County NE 54th Avenue north to the City limits (County NE 62nd Avenue). The City's project plans will be combined with Polk County's project for economy of scale and to better coordinate construction staging and traffic control between the two projects. This estimate includes having the City's project designed and inspected by a consulting firm. The joint County/City project will be let through the Iowa DOT in early 2022 due to the County having external funding involved through the Des Moines Area MPO.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	100,000					100,000
Construction Costs	900,000					900,000
Total	1,000,000					1,000,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	1,000,000					1,000,000
Total	1,000,000					1,000,000

Budget Impact/Other

In the long term, the additional public street pavement on SE Delaware Avenue will increase maintenance costs for the City's Public Works Department due to the additional winter maintenance and street sweeping that will be required.

Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		500	500	500	500	2,000
Total		500	500	500	500	2,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

Project #	STR-20-006
Project Name	SE Delaware Avenue Widening



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Safety Improvements

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 (DOT) Top 200 Safety Improvement Location Candidates at #6. The City's safety study 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. The proposed intersection configuration will provide a right-turn lane, two thru-lanes and dual left-turn lanes on all approaches. These roads are joint jurisdictional with Iowa DOT as Iowa Highways 415 and 160, and Iowa DOT has reviewed the study and concurs with the recommendations. Funding application was made to Iowa's Clean Air Attainment Program (ICAAP) in 2021 and will be made to Urban-State Traffic Engineering Program (U-STEP) in 2022.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	125,000					125,000
Engineering-Construction Services		160,000				160,000
Construction Costs		1,950,000				1,950,000
Land/ROW Acquisition	75,000					75,000
Total	200,000	2,110,000				2,310,000

Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants		800,000				800,000
G.O. Bonds	200,000					200,000
G.O. Bonds - TIF Abated		1,310,000				1,310,000
Total	200,000	2,110,000				2,310,000

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 maybe reduced with use of low-voltage equipment.

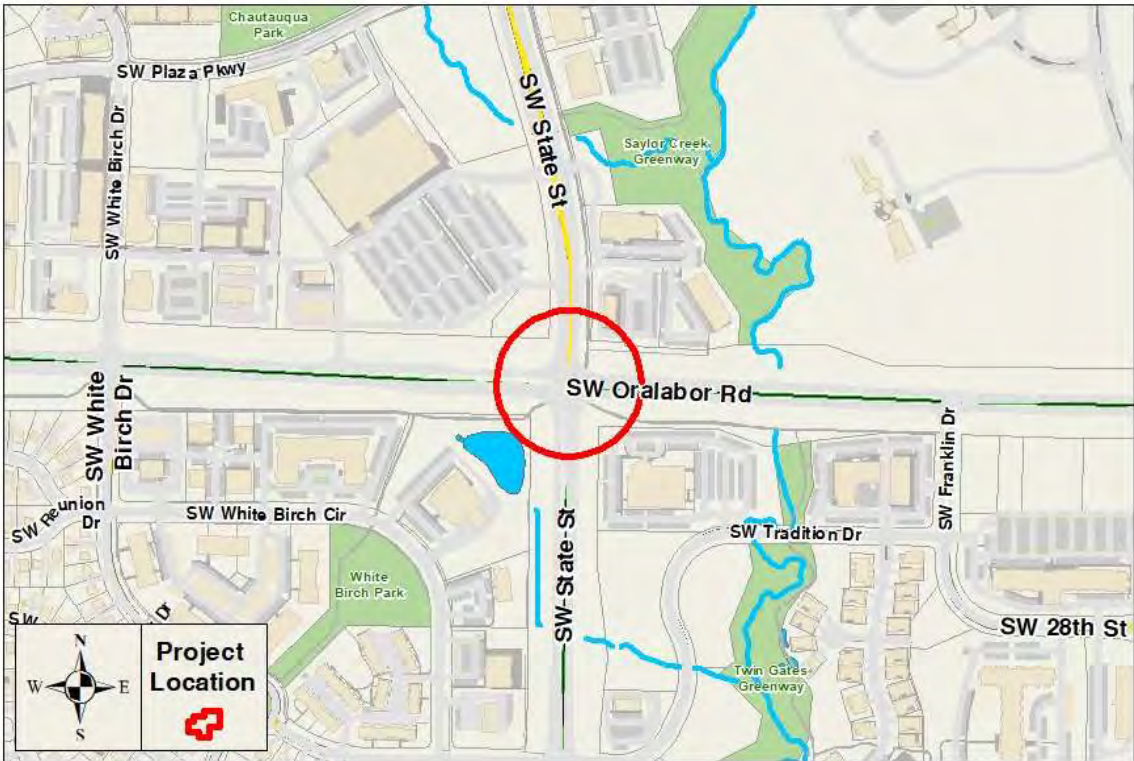
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs			250	250	250	750
Total			250	250	250	750

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Street 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	2022	2023	2024	2025	2026	Total
Engineering-Design	75,000					75,000
Engineering-Construction Services		110,000				110,000
Construction Costs		1,315,000				1,315,000
Total	75,000	1,425,000				1,500,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	75,000	1,425,000				1,500,000
Total	75,000	1,425,000				1,500,000

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.

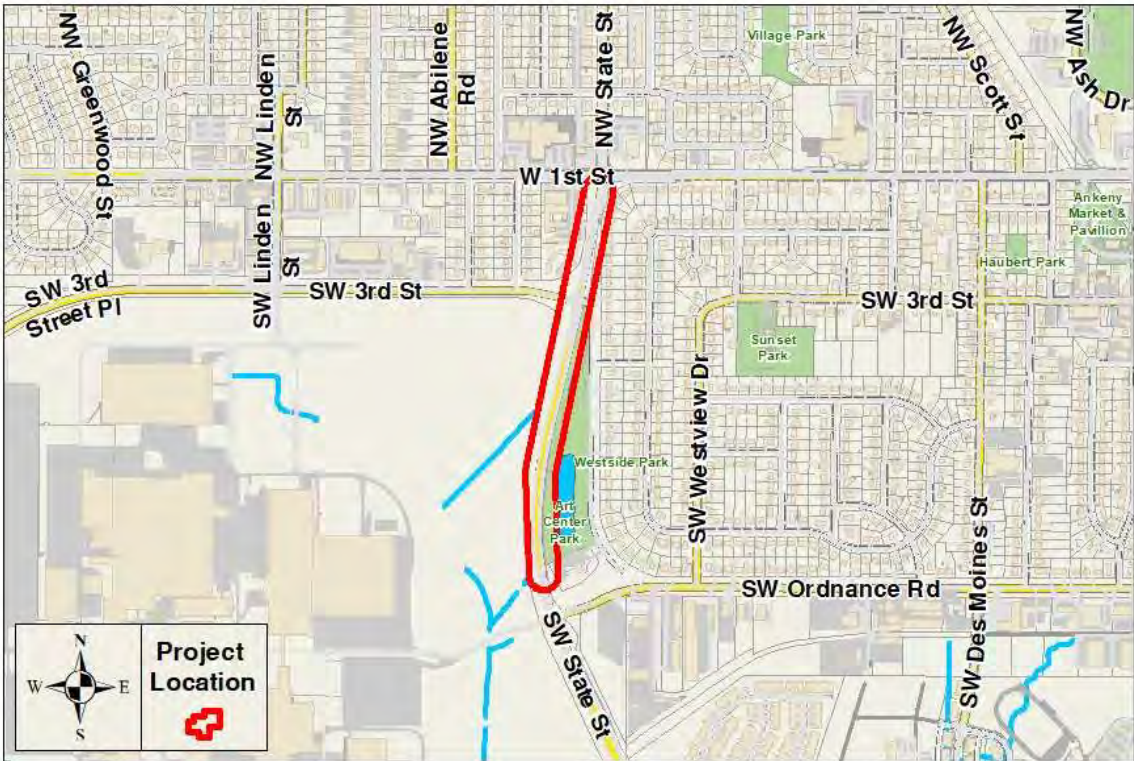
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs			-5,500	-5,500	-5,500	-16,500
Total			-5,500	-5,500	-5,500	-16,500

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 northwest part of the City. This segment of NW Irvinedale Drive is currently a two-lane rural section with old asphalt pavement. The intersection's current geometry creates bottlenecks due to the lack of left and right turn lanes, and there are some locations along NW Irvinedale Drive with steep side slopes which are considered potential safety issues. The continued growth on the City's northwest side will require improving the NW Irvinedale Drive and NW 18th Street intersection within the near future.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		75,000	350,000			425,000
Engineering-Construction Services				300,000		300,000
Construction Costs				2,925,000		2,925,000
Street Lighting				10,000		10,000
Total		75,000	350,000	3,235,000		3,660,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds		75,000	350,000	3,235,000		3,660,000
Total		75,000	350,000	3,235,000		3,660,000

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.

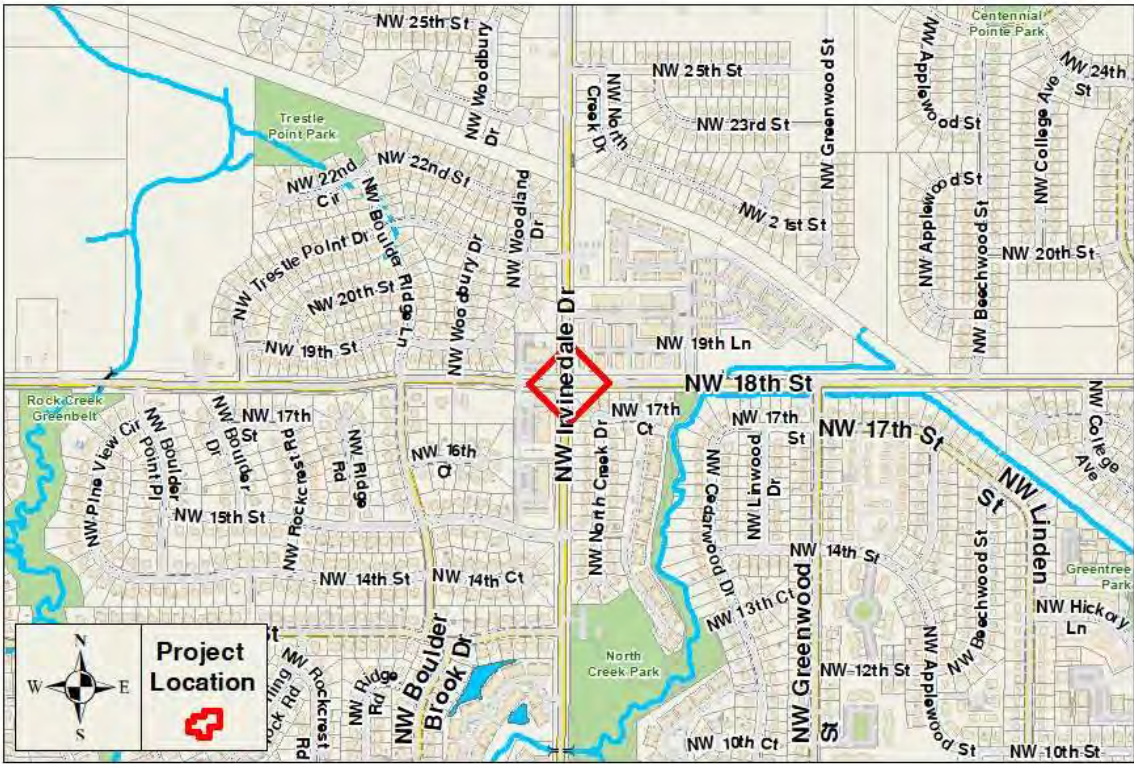
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs					500	500
Total					500	500

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 also includes traffic signal and pedestrian ramp upgrades.

Justification

The South Ankeny Boulevard and SE Oralabor Road intersection was listed in the Iowa Department of Transportation (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 US Highway 69 and Iowa Highway 160, and Iowa DOT concurs with the study findings. The proposed concept will provide a right-turn lane, two thru-lanes and dual left-turn lanes on all approaches. Additional analysis will evaluate non-traditional intersection configurations. Funding applications to Iowa's Clean Air Attainment Program (ICAAP, planned in 2022) and Traffic Safety Improvement Program (TSIP), and Urban-State Traffic Engineering Program (U-STEP) are anticipated.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design			50,000	175,000	75,000	300,000
Land/ROW Acquisition					160,000	160,000
Total			50,000	175,000	235,000	460,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds			50,000	175,000	235,000	460,000
Total			50,000	175,000	235,000	460,000

Budget Impact/Other

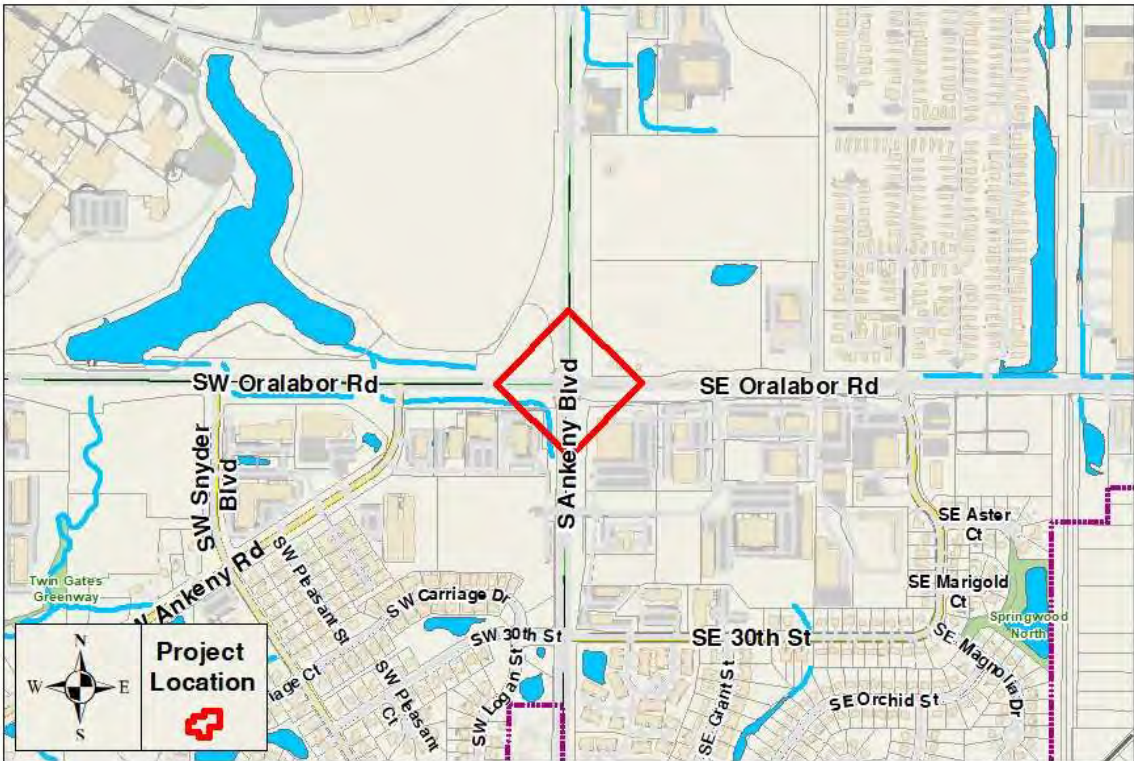
Iowa DOT maintains US Highway 69 and Iowa Highway 160, so they would be responsible for snow removal and maintenance of the additional public street pavement at all of the intersection's approaches. The traffic signal improvements will replace existing City-owned infrastructure, so impacts to utility and maintenance costs will be negligible, or maybe reduced with use of low-voltage equipment.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



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

This request includes adding approximately 30 parking stalls on SW Cherry Street, south of SW 3rd Street, and five new stalls on SW 3rd Street, west of SW Pleasant Street. The stalls on SW Cherry Street will support planned redevelopment of two vacant commercial sites on each side of SW Cherry Street. The parking projects are identified as areas A, B, C, and I in the Uptown Ankeny Parking Study.

Prior to the pandemic, parking in certain areas of Uptown was at a premium during peak times, including afternoons, evenings, and weekends. 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 identifies over a dozen areas in Uptown where additional on-street parking can be added to existing city right-of-way. The purpose of the study was to allow the city to address parking shortages as the area continues to redevelop and new uses draw more people to existing buildings in Uptown. This request supports five additional stalls at the east end of Uptown and approximately 30 additional on-street stalls adjacent to two new commercial developments on vacant land on SW Cherry Street, north of the High Trestle Trail crossing.

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - TIF Abated	180,000					180,000
Total	180,000					180,000

Operating impact includes snow removal from additional on-street parking and long-term maintenance of parking surface.

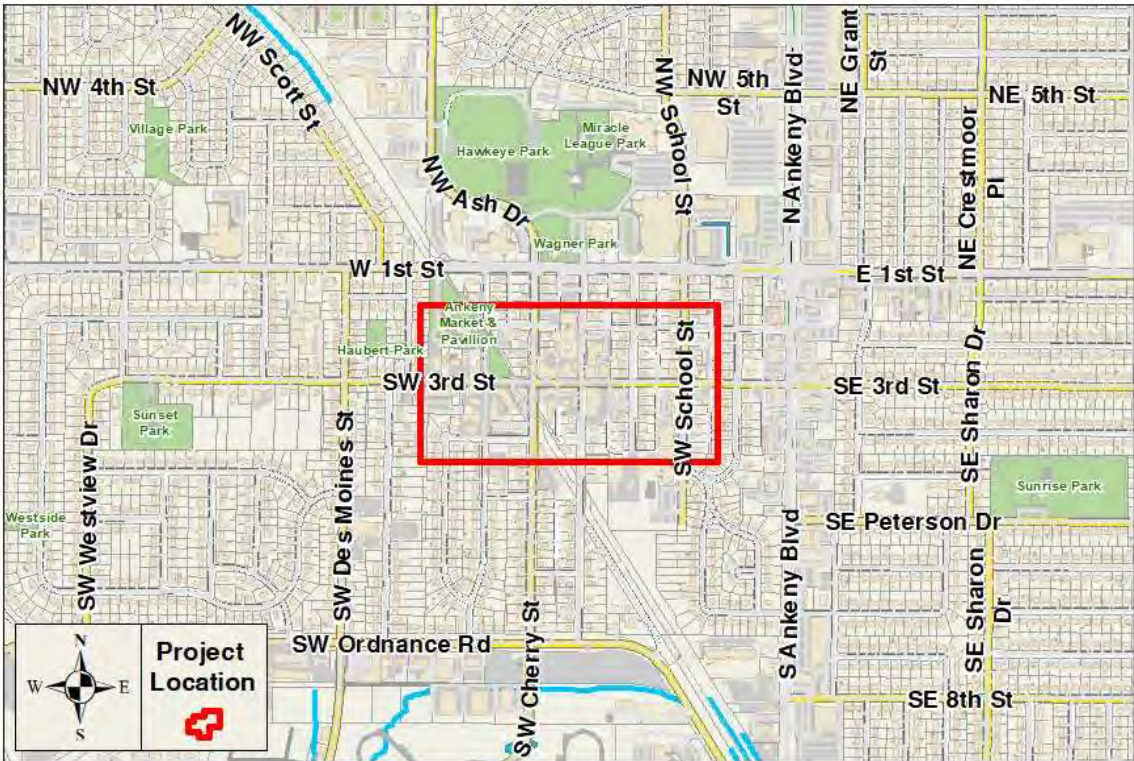
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs	200	200	200	200	200	1,000
Total	200	200	200	200	200	1,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-22-001

Project Name NE 36th St Reconstruct ion-I-35 to NE Four M ile Dr

Description

The project will design and construct street, public utility, and traffic signal infrastructure improvements on NE 36th Street, between I-35 and NE Four Mile Drive, to provide capacity for future development.

Justification

The purpose of the project is to prepare for future mixed commercial, services, recreational, office, and residential development with the design of street, public utility, and traffic signal improvements on NE 36th Street, between I-35 and NE Four Mile Drive. As a result of the traffic impact study, the design includes an urban section with sidewalk and public utilities similar to existing NE 36th Street west of I-35. Two (2) new traffic signals are anticipated at the NE 36th Street intersections with the southbound I-35 ramps and the future NE Spectrum Drive. As part of the design process, an Interchange Operations Report (IOR) will be completed, as required by the Iowa DOT, to determine potential future modifications needed for the existing I-35 and NE 36th Street interchange to provide additional capacity.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	572,000					572,000
Engineering-Construction Services	500,000					500,000
Construction Costs	4,500,000					4,500,000
Land/ROW Acquisition	100,000					100,000
Total	5,672,000					5,672,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - TIF Abated	5,672,000					5,672,000
Total	5,672,000					5,672,000

Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and sweet 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/or crack and joint sealing on the existing pavement. The traffic signals, 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 signals and street lighting will result in additional electric power costs for the City.

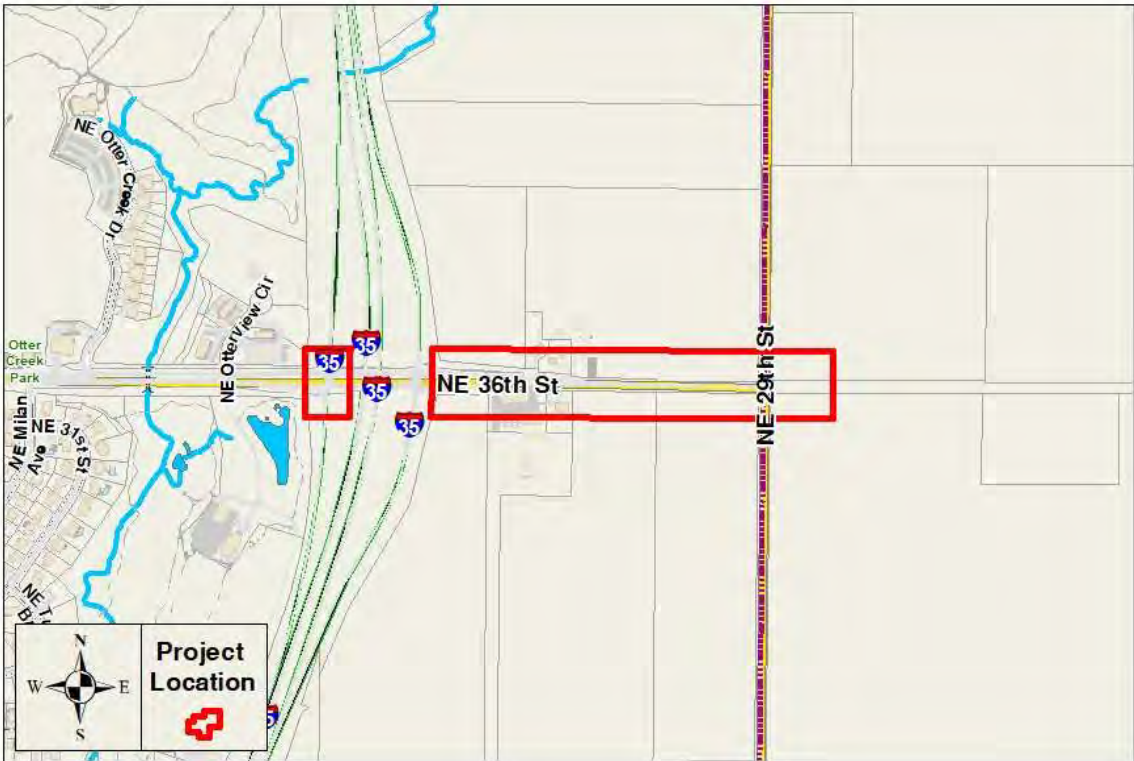
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs		1,500	1,500	1,500	1,500	6,000
Utilities		3,500	3,500	3,500	3,500	14,000
Total		5,000	5,000	5,000	5,000	20,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 thru 2026

Department Public Works
Contact City Engineer

Project #	STR-22-001
Project Name	NE 36th St Reconstruction-I-35 to NE Four Mile Dr



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 granular shoulders. This project also includes 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	2022	2023	2024	2025	2026	Total
Engineering-Design			125,000			125,000
Engineering-Construction Services				85,000		85,000
Construction Costs				1,100,000		1,100,000
Total			125,000	1,185,000		1,310,000

Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds			125,000	1,185,000		1,310,000
Total			125,000	1,185,000		1,310,000

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.

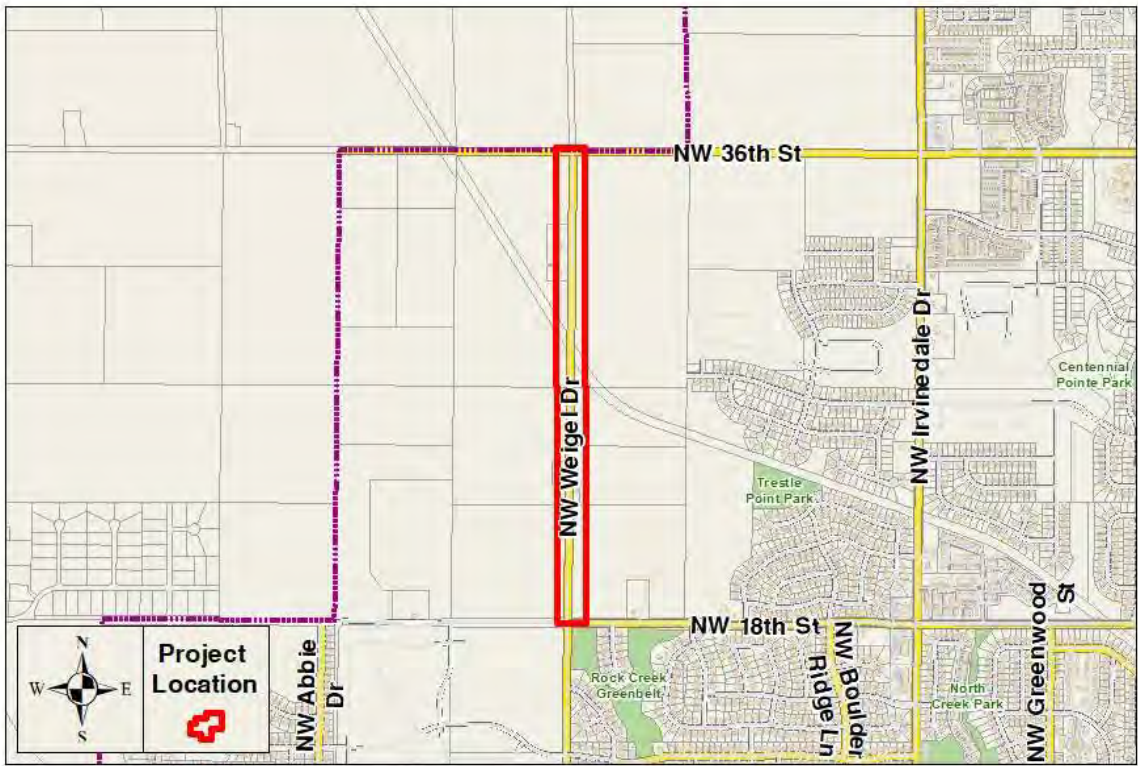
Budget Items	2022	2023	2024	2025	2026	Total
Maintenance Costs					-17,500	-17,500
Total					-17,500	-17,500

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 State Street. The existing four-lane street is only 41' wide (four – 10' lanes) and is proposed to be removed and replaced with a new five-lane street that is a minimum of 60' wide (four – 11' lanes with 2' curb and gutter sections along with a 12' center two-way left-turn lane). Additional improvements include sanitary/water/storm upgrades to replace the 50-year-old underground infrastructure; the addition of a new traffic signal at the West 1st Street and Linden Street intersection; and the addition of approximately 20 streetlights. Similar to the West 1st Street Widening and Improvements – Phase 1 project currently under construction in 2021 and 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 the wood poles would be placed underground in the joint utility trench. The Public Works Department is proposing that the Phase 2 project's construction be scheduled for 2026 and 2027, with the joint utility trench construction in 2025. For the purposes of this initial Capital Project Request Form, it is estimated that the overall construction cost for the Phase 2 project is approximately \$7 million, divided equally over two years. The estimate for the joint utility trench project is approximately \$1 million.

Justification

The existing undivided four-lane 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 with ½' wide curb and gutter sections 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 a 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 project is planned for 2026 and 2027 construction, with the topographic survey and preliminary design occurring in 2024, and the final design and property acquisitions occurring in 2025. The Public Works Department believes the project is a good candidate to receive Federal STBG funding through the Des Moines Area MPO. 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	2022	2023	2024	2025	2026	Total
Engineering-Design			500,000	500,000		1,000,000
Engineering-Construction Services					350,000	350,000
Construction Costs				1,000,000	3,500,000	4,500,000
Street Lighting					75,000	75,000
Land/ROW Acquisition				150,000		150,000
Total			500,000	1,650,000	3,925,000	6,075,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds - TIF Abated			500,000	1,650,000	3,925,000	6,075,000
Total			500,000	1,650,000	3,925,000	6,075,000

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 sewer and water maintenance and repairs (e.g. root intrusions on existing clay sanitary pipe and main breaks on existing ductile iron water pipe). The new street lights will result in additional electric power costs to the City.

City of Ankeny, Iowa

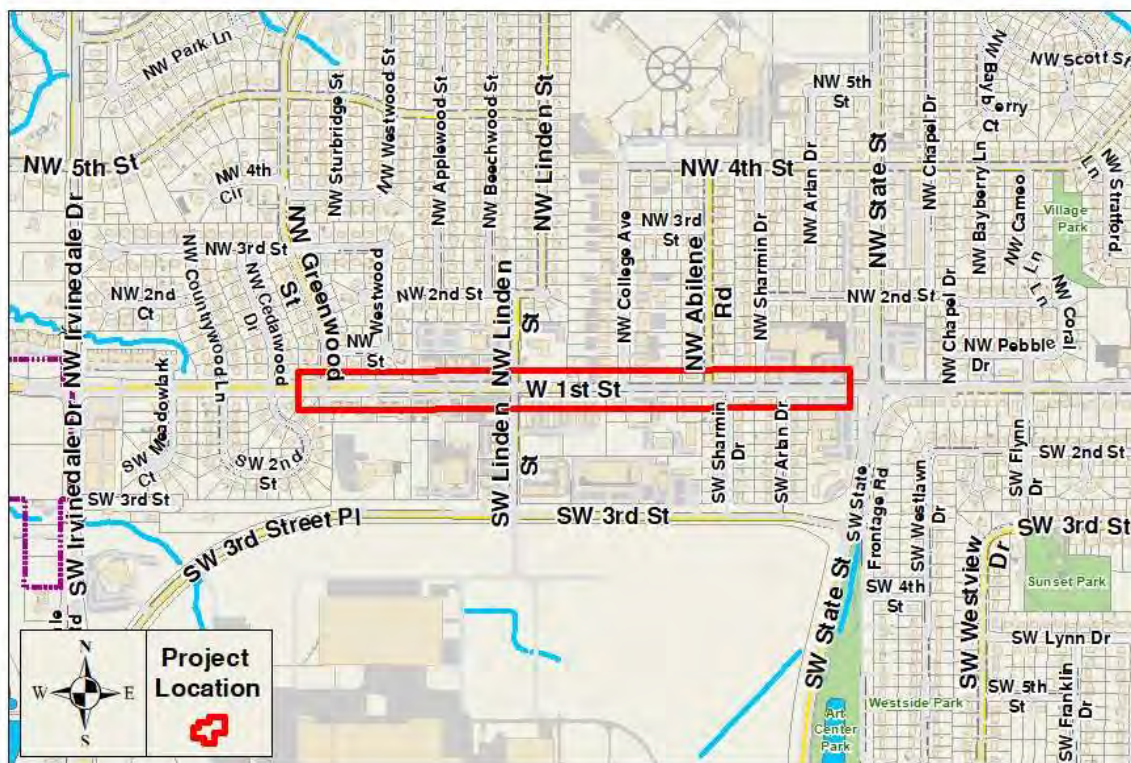
2022 *thru* 2026

Department Public Works

Contact City Engineer

Project # STR-22-003

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 PCC pavement on NW 18th Street from just west of NW State Street to just west of NW Ash Drive. The project will include removing existing pavement, storm sewer intakes, some sidewalk and trail. New PCC pavement, modified subbase, subdrains, pavement markings and turn lanes will be constructed. 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 and provide additional turning capacity, as needed. This corridor requires regular maintenance by the Public Works Operations Division to maintain a traversable surface. The anticipated project schedule includes consultant survey and conceptual design (2025), consultant design (2026), and construction and consultant construction inspection (2027).

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design				100,000	300,000	400,000
Land/ROW Acquisition					5,000	5,000
Total				100,000	305,000	405,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds				100,000	305,000	405,000
Total				100,000	305,000	405,000

Budget Impact/Other

The project will reduce the annual maintenance costs to 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 2027.

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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):

2022 – North Ankeny Boulevard Fiber Optic Upgrade from 1st Street to 18th Street - \$245,000 (construction & materials) and \$15,000 (survey & inspection)

2022 – SE Quadrant Fiber Optic Upgrade, Phase 1 (Public Works Traffic Signal Shop to Gay Lea Wilson Trail) - \$135,000 (construction & materials) (in-house design & inspection)

2022 – SW Oralabor Road and SW Irvinedale Drive Safety Improvements - \$35,000 (construction & materials) (in-house design & inspection)

2022 – High Trestle Trail Crossing RRFB (Rectangular Rapid Flashing Beacon), NW Irvinedale Drive and NW 18th Street –\$20,000 per site (materials & installation), \$40,000 (total)

2022 – Replace vehicle detection at South Ankeny Boulevard and SE 8th Street; and provide wireless communication to new signal at North Ankeny Boulevard and NE 54th Street - \$40,000 (total)

2022 – Cost sharing for traffic signal improvements related to private development project, SE Oralabor Road and SW Snyder Boulevard - \$150,000 for traffic signal

2022 – Cost sharing for traffic signal improvements related to private development project, SW State Street and SW 11th Street - \$150,000 for traffic signal

2023 – SW Quadrant Fiber Optic Upgrade, Phase 1 (SW State Street between Magazine Road and 1st Street) - \$20,000 (design), \$135,000 (construction & materials), \$5,000 (survey & construction assistance)

2023 – SE Quadrant Fiber Optic Upgrade, Phase 2 (SE Oralabor Road and SE Delaware Avenue area); - \$10,000 (design), \$150,000 (construction & materials), \$5,000 (survey & construction assistance)

2024 – SW Quadrant Fiber Optic Upgrade, Phase 2 (SW Oralabor Road and SW State Street area) - \$20,000 (design), \$250,000 (construction & materials), \$10,000 (survey & construction assistance)

2022 through 2026 – Existing traffic signal infrastructure replacement - \$110,000-\$130,000

2023 through 2026 – Cost sharing for traffic signal improvements related to private development projects - \$150,000

2023 through 2026 – Miscellaneous upgrades associated with other City projects - \$40,000

2022 through 2026 – Traffic signal and fiber optic projects, to be determined - \$550,000-\$700,000

Justification

An effective and efficient traffic signal system improves traffic safety and mobility, reduces energy costs and enhances the quality of life for residents. Also, 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 2021 and 2022. Traffic counts in September 2021 and review of crash experience will identify intersections for signalization in year 2023 and beyond. There is potential to obtain federal and/or state funding for traffic signals proposed at intersections with state highways.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	75,000	140,000	130,000	125,000	125,000	595,000
Construction Costs	1,005,000	1,035,000	1,000,000	875,000	875,000	4,790,000
Total	1,080,000	1,175,000	1,130,000	1,000,000	1,000,000	5,385,000
Funding Sources	2022	2023	2024	2025	2026	Total
G.O. Bonds	950,000	1,065,000	1,020,000	890,000	890,000	4,815,000
Road Use Tax Fund	130,000	110,000	110,000	110,000	110,000	570,000
Total	1,080,000	1,175,000	1,130,000	1,000,000	1,000,000	5,385,000

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.

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Budget Items	2022	2023	2024	2025	2026	Total
Utilities	2,600	3,200	3,800	4,400	5,000	19,000
Total	2,600	3,200	3,800	4,400	5,000	19,000

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Just ification

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 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 Interstate 35 entrances. The Iowa DOT will cost share for the engineering services necessary to complete the IJR.

Expenditures	2022	2023	2024	2025	2026	Total
Planning Study		100,000				100,000
Total		100,000				100,000
Funding Sources	2022	2023	2024	2025	2026	Total
FHWA/IDOT Grants		50,000				50,000
Road Use Tax Fund		50,000				50,000
Total		100,000				100,000

Budget Impact/Other

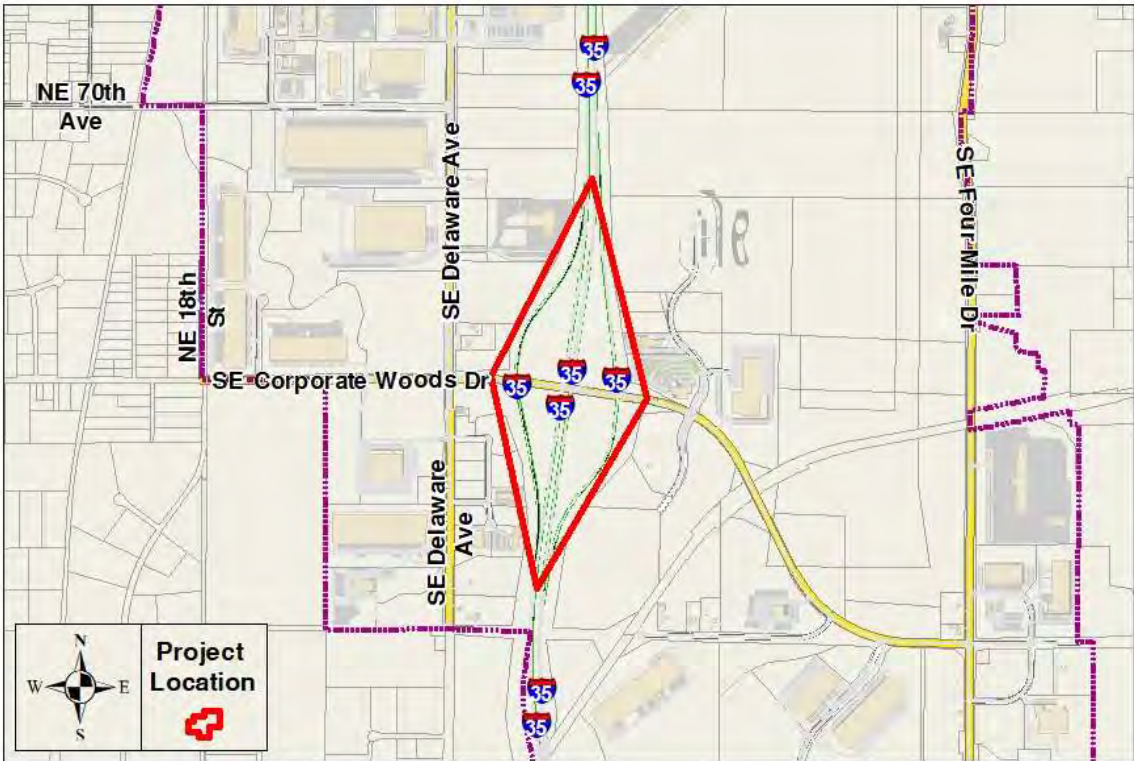
The project is a report only, and therefore no operating impacts are expected.

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Public Works
Contact City Engineer

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



2022 - 2026 Capital Improvement Program

2022 thru 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Traffic Control

Project #	TRF-22-001
Project Name	Elementary Schools Walkability Improvements

Description

The project will implement recommended improvements and modifications to public sidewalks, ramps, signs, markings, and traffic control devices to reduce safety concerns and promote student pedestrian and bicycle travel between home and the neighborhood public elementary schools.

Justification

School pedestrian routes were last reviewed in 2009 when there were eight elementary schools in the City. In 2021, three additional schools, phased residential developments, and changes in traffic patterns have resulted in ad hoc implementation of new school crosswalks and traffic control devices, maintenance of legacy crosswalks and traffic control devices that no longer serve the needs of current students walking and biking to or from their neighborhood schools, and part-time traffic control devices that have low compliance or are considered a ‘nuisance’ by an increasing number of drivers. This likely has contributed somewhat to the continued increase in the number of parents that drive their children to school, even when the walking/biking distance may be very short, and unmanageable congestion on the adjacent collector and arterial streets twice each school day.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	25,000					25,000
Construction Costs	100,000					100,000
Total	125,000					125,000
Funding Sources	2022	2023	2024	2025	2026	Total
Road Use Tax Fund	125,000					125,000
Total	125,000					125,000

Budget Impact/Other

The majority of the modifications and improvements replace existing infrastructure and will not incur additional operating or maintenance costs. Additional pavement markings and signage will require maintenance by the Public Works Department, as well as new pedestrian or school speed zone beacons. Beacons would be solar powered, so will carry no additional costs for electricity.

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # TRF-22-001

Project Name Elementary Schools Walkability Improvements



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2022 *thru* 2026

Department Water Utility

Contact Municipal Utilities Director

Type Improvement

Useful Life 40 years

Category Water Mains

Project # WTM-00-001

Project Name Annual Water Main Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of water utility infrastructure and the Water Fund's portion of the neighborhood projects. Specific projects for 2022 to 2026 include the following:

- Development water main oversizing: 2022 to 2026 – \$100,000/year
- 1/3 NW Northlawn Area Utility Improvements (3 of 4 Phases Remaining): 2022 - \$250,000 (Remaining Phase 1 Construction) and \$10,000 (Remaining Phase 1 Construction Engineering) and \$10,000 (Remaining Phase 2 Design Engineering) and \$15,000 (Initial Phase 2 Construction – Storm Sewer Outfall Only); 2023 - \$490,000 (Phase 2 Construction) and \$15,000 (Phase 2 Construction Engineering) and \$20,000 (Phase 3 Design Engineering); 2024 - \$400,000 (Phase 3 Construction) and \$15,000 (Phase 3 Construction Engineering) and \$20,000 (Phase 4 Design Engineering); 2025 - \$455,000 (Phase 4 Construction) and \$15,000 (Phase 4 Construction Engineering)
- 1/3 Original Ankeny Area Utility Improvements (Number of Phases still TBD): 2024 - \$25,000 (Survey and Conceptual Design); 2025 - \$50,000 (Phase 1 Design Engineering); 2026 - \$500,000 (Phase 1 Construction) and \$25,000 (Phase 1 Construction Engineering) and \$25,000 (Phase 2 Design Engineering)

Justification

The water main proposed for replacement are primarily 4" iron pipe prioritized based upon their history of water main breaks. They are inadequate for supplying fire flows based on industry and SUDAS standards and require additional O&M to maintain water quality. Development Engineering staff will be used for the design and construction observation whenever possible; however, the full reconstruction and utility replacement projects (NW Northlawn Area Utility Improvements and Original Ankeny Area Utility Improvements projects) anticipate the use of a consulting engineer for design. The water main oversizing has increased due to the use of 16" main that will be cost shared for several upcoming projects along major corridors.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design		20,000	45,000	50,000	25,000	140,000
Engineering-Construction Services		15,000	15,000	15,000	25,000	70,000
Construction Costs	115,000	590,000	500,000	555,000	600,000	2,360,000
Total	115,000	625,000	560,000	620,000	650,000	2,570,000

Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund		25,000		20,000	50,000	95,000
Water Fund	115,000	600,000	560,000	600,000	600,000	2,475,000
Total	115,000	625,000	560,000	620,000	650,000	2,570,000

Budget Impact/Other

The operating impact for this project will be negligible from the maintenance aspect due to the replacement of old and deteriorating water main with new PVC main. There will be staff hours during design and engineering for administration personnel, and field services personnel during construction. Researching old plans, field verifications, contract and plan reviews, operating valves, locating, and on-site observations. Water will be needed for testing, flushing, and filling the various mains.

Budget Items	2022	2023	2024	2025	2026	Total
Utilities	350	350	350	350	350	1,750
Total	350	350	350	350	350	1,750

2022 - 2026 Capital Improvement Program

City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-00-001

Project Name Annual Water Main Replacement Program



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 -Phase 1

Description
Install approximately 4,900 LF of 24" transmission water main along the High Trestle Trail and abandoned railroad grade from the Ash Water Tower north to NW State Street. This project will be the first phase of a two phased project to 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 once both phases are complete. This will supply the booster station with adequate water for full build out of the area in the northwest quadrant of Ankeny.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	175,000					175,000
Construction Costs	2,190,000					2,190,000
Total	2,365,000					2,365,000

Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds	2,365,000					2,365,000
Total	2,365,000					2,365,000

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 1,400,000 gallons to fill and flush the new main.

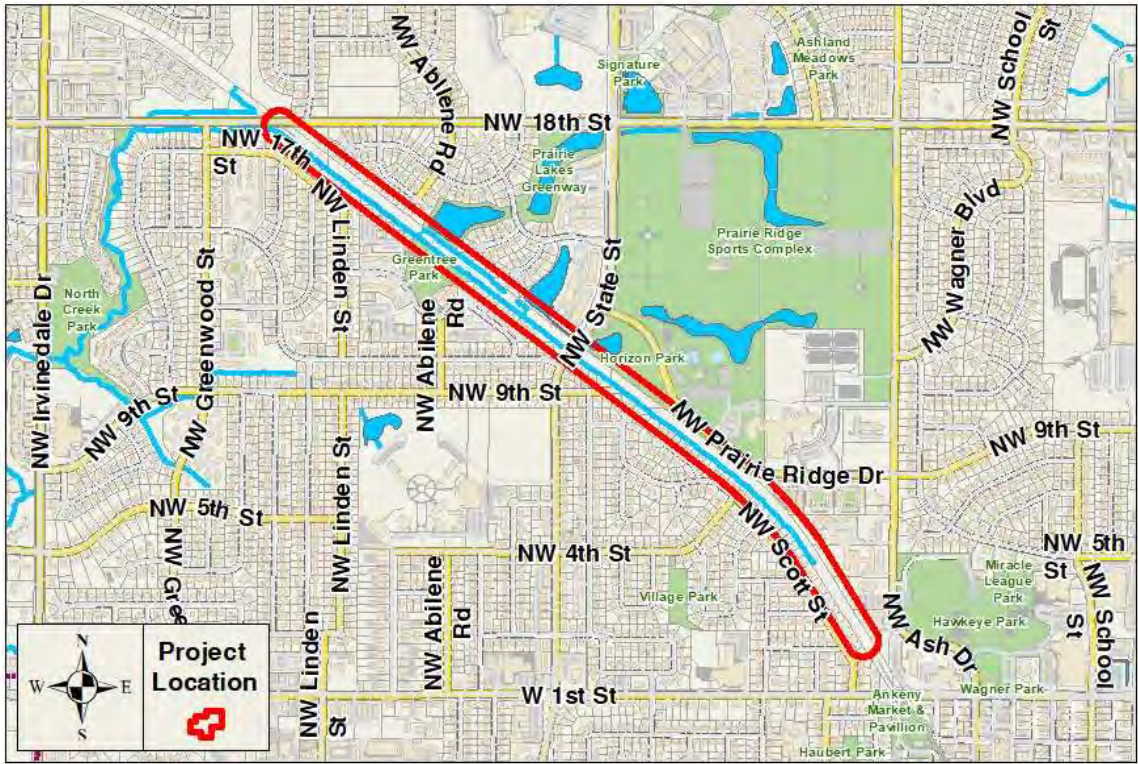
Budget Items	2022	2023	2024	2025	2026	Total
Utilities	4,200					4,200
Total	4,200					4,200

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 thru 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM- 17-001
Project Name	High Trestle Trail Transmission Main-Phase 1



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project # WTM- 17-007
Project Name Ir vinedal e Drive Tra nsmission Main-Phase 3

Description

Install approximately 1,500 LF of 24" transmission main along NW Irvinedale Drive from just north of NW 29th Street north to the future NW Water Tower site located north of NW 36th Street.

Justification

The purpose of this project is to increase water conveyance from the NW Booster Station to the future NW Water Tower. This project is actually the northern portion of the project that was not able to be completed last year due to material shortages. We were able to get the southern portion completed up to the Booster Station which removes our concerns related to suction pressure at the Booster Station. The cost estimates shown below includes the remaining balance from the overall project of \$500,000 (already funded) plus an anticipated increase in material pricing of \$83/LF due to catastrophic events in southern Texas. This will add roughly \$125,000 to the project with a grand total of next year's phase to be \$625,000. I estimated just over 2x for pricing increases. This has been checked with different suppliers and several contractors as all water main materials are extremely higher in cost this season and with additional damage done from Hurricane Ida, it is difficult to estimate what costs will be going forward as quotes from suppliers are only good for 2 weeks from the date issued as the market is that volatile.

Expenditures	2022	2023	2024	2025	2026	Total
Construction Costs	625,000					625,000
Total	625,000					625,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	625,000					625,000
Total	625,000					625,000

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. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. It will take almost 210,000 gallons to fill and flush the new main.

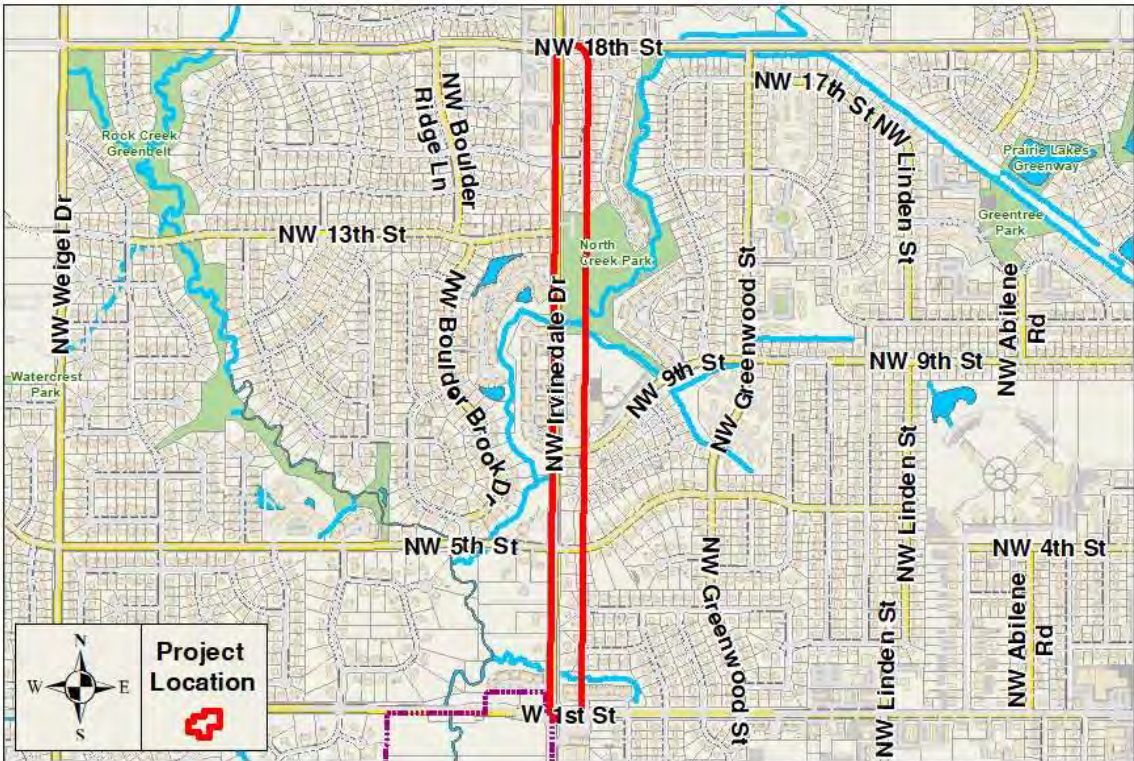
Budget Items	2022	2023	2024	2025	2026	Total
Utilities	630					630
Total	630					630

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM- 17-007
Project Name	Irvinedale Drive Transmission Main-Phase 3



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Wastewater 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. The actual timing for purchasing the additional pipe capacity will need to be discussed further with DMWW and could be impacted through discussions of the regionalization of water.

Expenditures	2022	2023	2024	2025	2026	Total
Legal-General/Spec.			1,000			1,000
Assessment						
Other Costs			700,000			700,000
Total			701,000			701,000
Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds			701,000			701,000
Total			701,000			701,000

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 from an operational impact.

2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM- 17-008

Project Name Saylorville Feeder Main Purchase Capacity



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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 T ransmission Ma in

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 South 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	2022	2023	2024	2025	2026	Total
Engineering-Design	235,000					235,000
Engineering-Construction Services		200,000				200,000
Construction Costs		2,190,000				2,190,000
Total	235,000	2,390,000				2,625,000
Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds	235,000	2,390,000				2,625,000
Total	235,000	2,390,000				2,625,000

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 Item s	2022	2023	2024	2025	2026	Total
Utilities		4,650				4,650
Total		4,650				4,650

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 thru 2026

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	2022	2023	2024	2025	2026	Total
Engineering-Design			112,000			112,000
Engineering-Construction Services				112,000		112,000
Construction Costs				1,335,330		1,335,330
Total			112,000	1,447,330		1,559,330

Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds			112,000	1,447,330		1,559,330
Total			112,000	1,447,330		1,559,330

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.

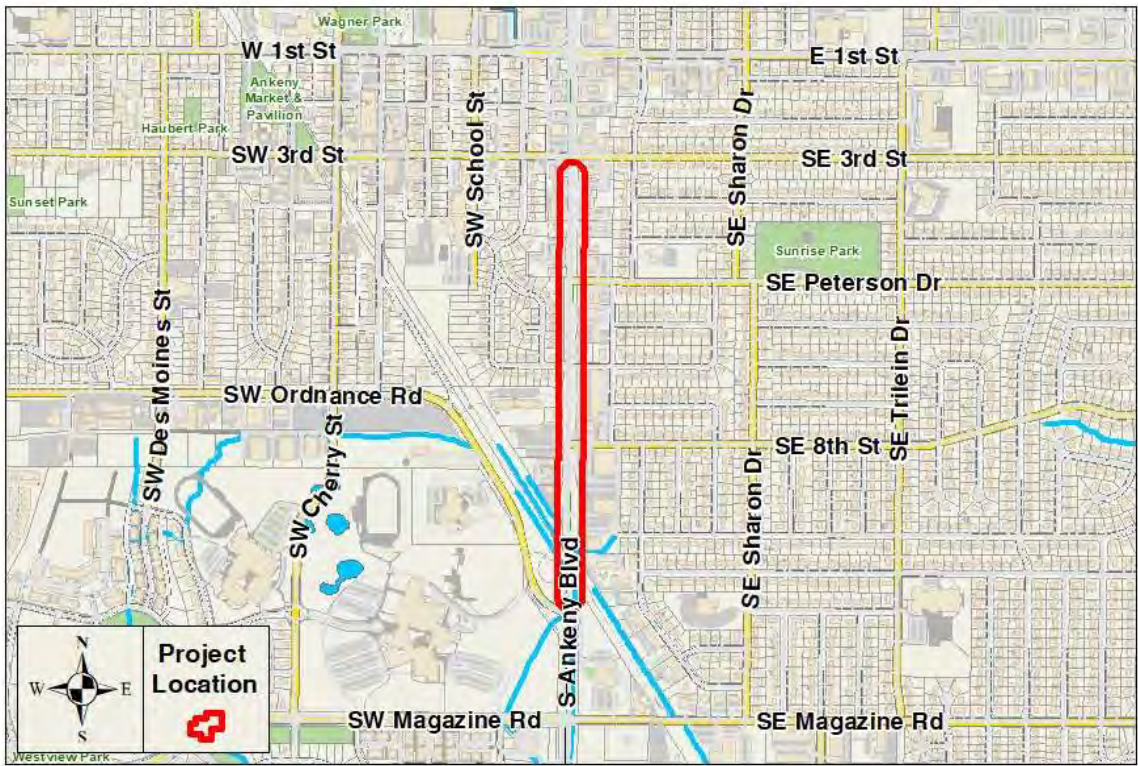
Budget Items	2022	2023	2024	2025	2026	Total
Utilities				1,185		1,185
Total				1,185		1,185

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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

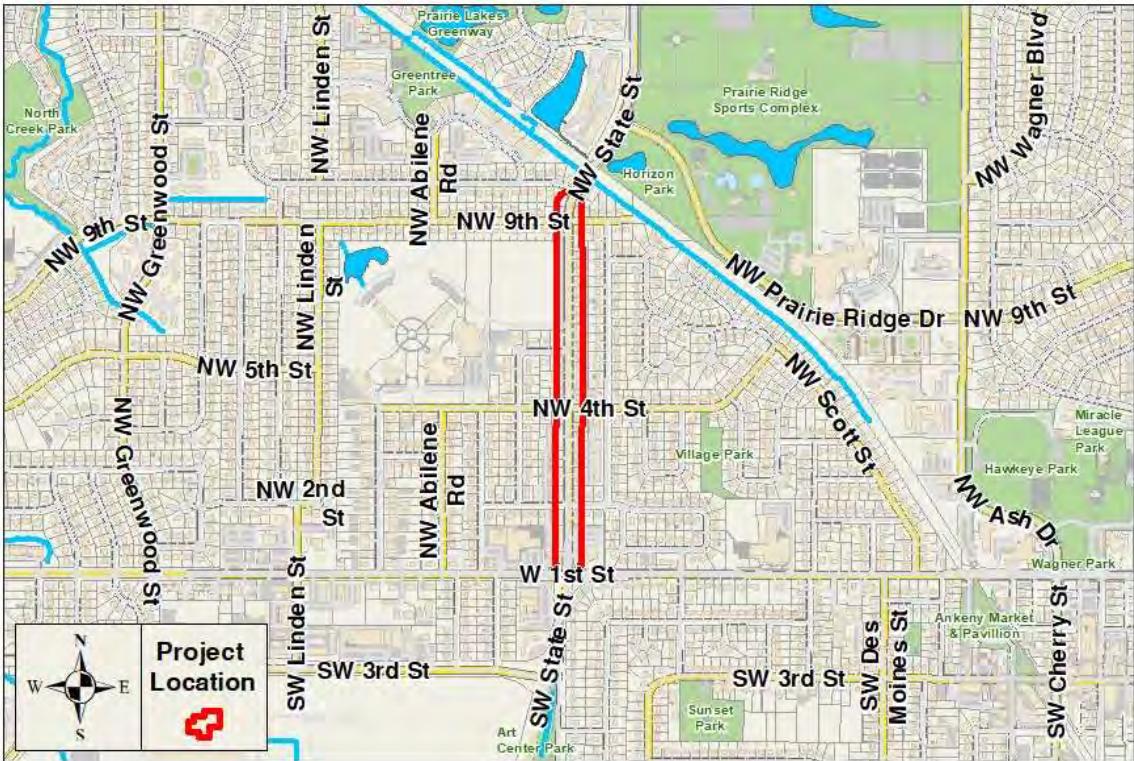
The purpose of this project is to connect the 12” distribution water main along NW State Street from West 1st Street to NW 10th Street in order to remove a bottleneck during high water demand periods and improve fire flows northwest of this location.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design					120,000	120,000
Total					120,000	120,000
Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds					120,000	120,000
Total					120,000	120,000

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.

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project # WTM- 20-001
Project Name NW 36th Street and NW Weigel Drive Water Main Loop

Description

Install approximately 9,100 LF of 16" water main along the south side of NW 36th Street from NW Irvinedale Drive to NW Weigel Drive and along the east side of NW Weigel Drive from NW 36th Street to NW 18th Street.

Justification

The purpose of this project is to add a redundant line for the boosted northwest pressure zone. Currently there is only one 12" main feeding this area. If there was any type of failure in the existing 12" main, several residents would be without water, major operational changes would be needed, and this area would no longer have boosted pressure. This project was also affected by the material supply and cost issues due to catastrophic events in southern Texas. It is anticipated that this project will also have an increased cost in materials as the overall market has permanently shifted from the events in Texas. The cost estimate information below includes the original contract price of \$786,655 (already funded) plus an anticipated increase in material pricing of \$40/LF to be \$364,000 more for a grand total of \$1,150,655 which is still below the engineer's estimate for this project. I estimated just over 2x for pricing increases. This has been checked with different suppliers and several contractors as all water main materials are extremely higher in cost this season and with additional damage done from Hurricane Ida, it is difficult to estimate what costs will be going forward as quotes from suppliers are only good for 2 weeks from the date issued as the market is that volatile.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	120,000					120,000
Construction Costs	1,150,655					1,150,655
Total	1,270,655					1,270,655
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	1,270,655					1,270,655
Total	1,270,655					1,270,655

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. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. It will take almost 570,000 gallons to fill and flush the new main.

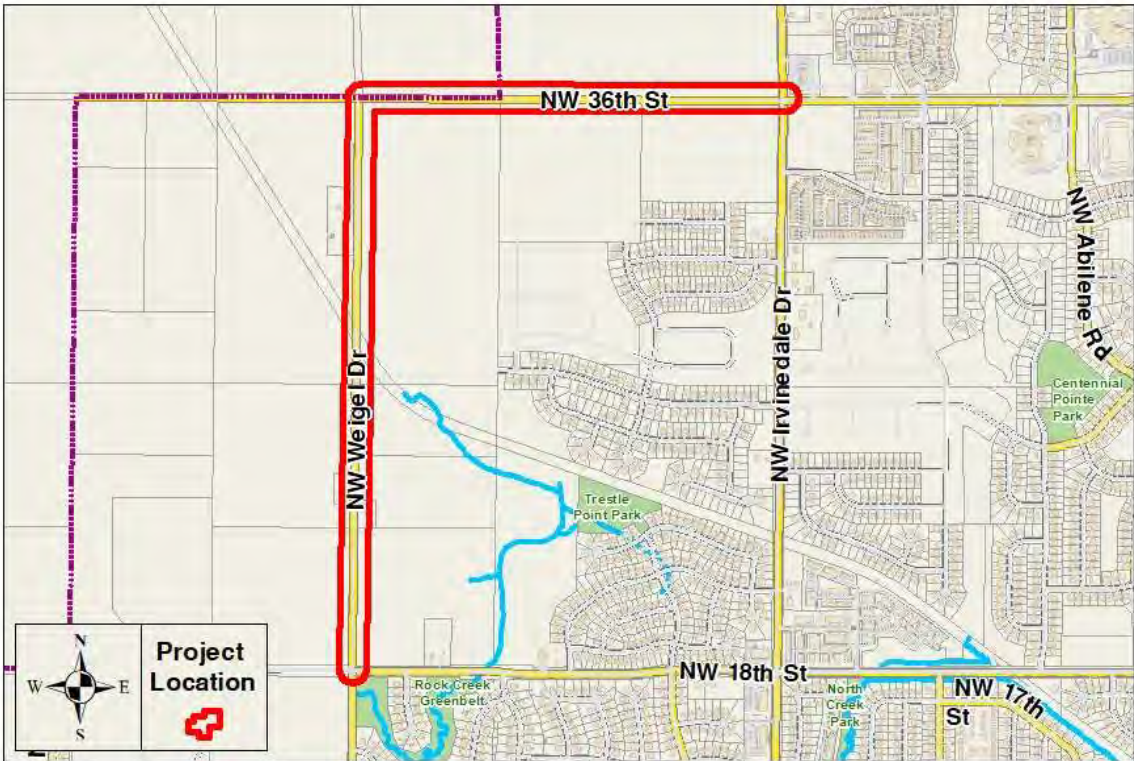
Budget Items	2022	2023	2024	2025	2026	Total
Utilities	1,710					1,710
Total	1,710					1,710

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM- 20-001
Project Name	NW 36th Street and NW Weigel Drive Water Main Loop



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 waterline, along with connection to surrounding feeds provides a reliable looped system and helps to maintain better distribution system pressures and fire flows within the area.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design				110,000		110,000
Engineering-Construction Services					110,000	110,000
Construction Costs					1,209,870	1,209,870
Total				110,000	1,319,870	1,429,870
Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds				110,000	1,319,870	1,429,870
Total				110,000	1,319,870	1,429,870

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.

Budget Items	2022	2023	2024	2025	2026	Total
Utilities					170	170
Total					170	170

City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility

Contact Municipal Utilities Director

Project # WTM- 20-002

Project Name SW Walnut Street and SW Ordinance Road Water Main



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	WTM- 21-001
Project Name	High Trestle Trail Transmission Main -Phase 2

Description

Install approximately 5,000 LF of 24" transmission water main along the High Trestle Trail and abandoned railroad grade from NW State Street north to NW 18th Street, and then west along NW 18th Street to NW Irvinedale Drive. This project will be the second phase of a two-phase project to 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 once both phases are complete. This will supply the booster station with adequate water for full build out of the area in the northwest quadrant of Ankeny.

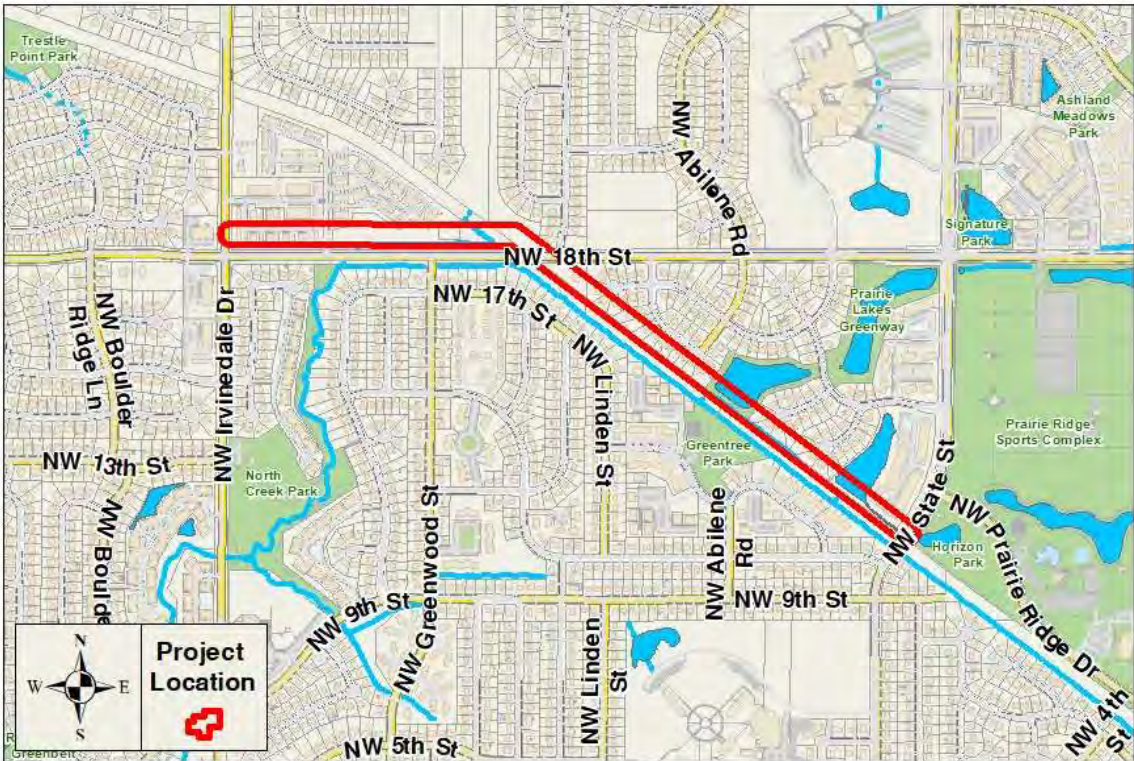
Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	178,000					178,000
Engineering-Construction Services		143,000				143,000
Construction Costs		1,783,000				1,783,000
Total	178,000	1,926,000				2,104,000
Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds	178,000	1,926,000				2,104,000
Total	178,000	1,926,000				2,104,000

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 1,400,000 gallons to fill and flush the new main.

Budget Items	2022	2023	2024	2025	2026	Total
Utilities		4,200				4,200
Total		4,200				4,200

Project #	WTM- 21-001
Project Name	High Trestle Trail Transmission Main-Phase 2



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	WTM- 22-001
Project Name	Centennial Estates Water Main Cost Share

Description

The Centennial Estates Water Main Cost Share project will include installation of approximately 710 LF of 12” water main on the east side of NW Irvinedale Drive from an existing dead end at 3075 NW Irvinedale Drive to the south.

Justification

The Centennial Estates Water Main Cost Share project will fund the cost share for oversizing water main with the development of Centennial Estates Plat 3 by DRA Properties. Providing this funding will eliminate the need for a separate future water main and the savings in the long run will outweigh the costs incurred now.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	16,000					16,000
Construction Costs	129,000					129,000
Total	145,000					145,000

Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	145,000					145,000
Total	145,000					145,000

Budget Impact/Other

It will need about 25,000 gallons of water to fill and flush the new main.

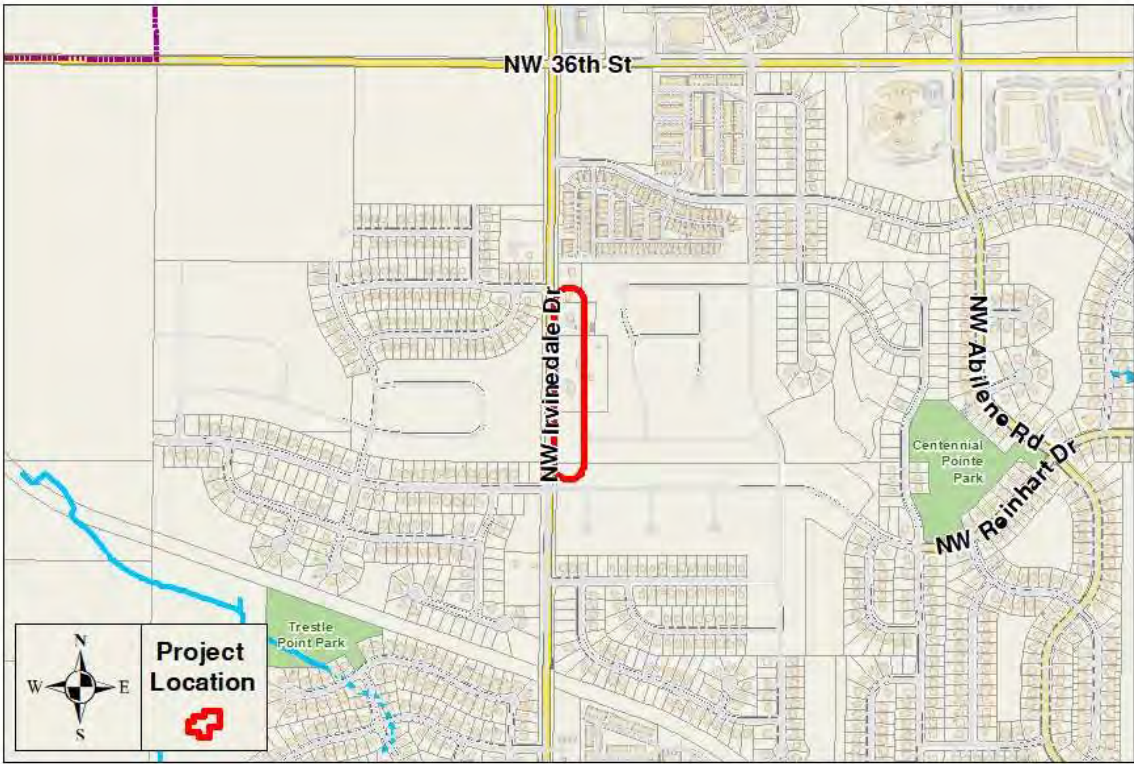
Budget Items	2022	2023	2024	2025	2026	Total
Utilities	75					75
Total	75					75

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM- 22-001
Project Name	Centennial Estates Water Main Cost Share



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	WTM- 22-002
Project Name	N Ankeny Blvd Water Main-NE 41st St to Unity Pt

Description

The North Ankeny Boulevard Water Main-NE 41st Street to Unity Point project will include installation of approximately 500 LF of 12" water main on the east side of North Ankeny Boulevard to close a gap between the existing 12" water main on the east side of Ankeny Boulevard north of the Unity Point site north of NE 36th Street and the 12" water main that ends south of NE 41st Street approximately 200' east of North Ankeny Boulevard.

Justification

This project will connect the existing 12" distribution mains south of NE 41st Street and north of Unity Point north of NE 36th Street on the east side of North Ankeny Boulevard. This will close an existing gap, and provide a loop within the water system which will improve fire flows and remove a bottleneck during high water demand periods northeast of this location.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	20,000					20,000
Construction Costs	154,900					154,900
Land/ROW Acquisition	100					100
Total	175,000					175,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	175,000					175,000
Total	175,000					175,000

Budget Impact/Other

It will need about 18,000 gallons of water to fill and flush the new main.

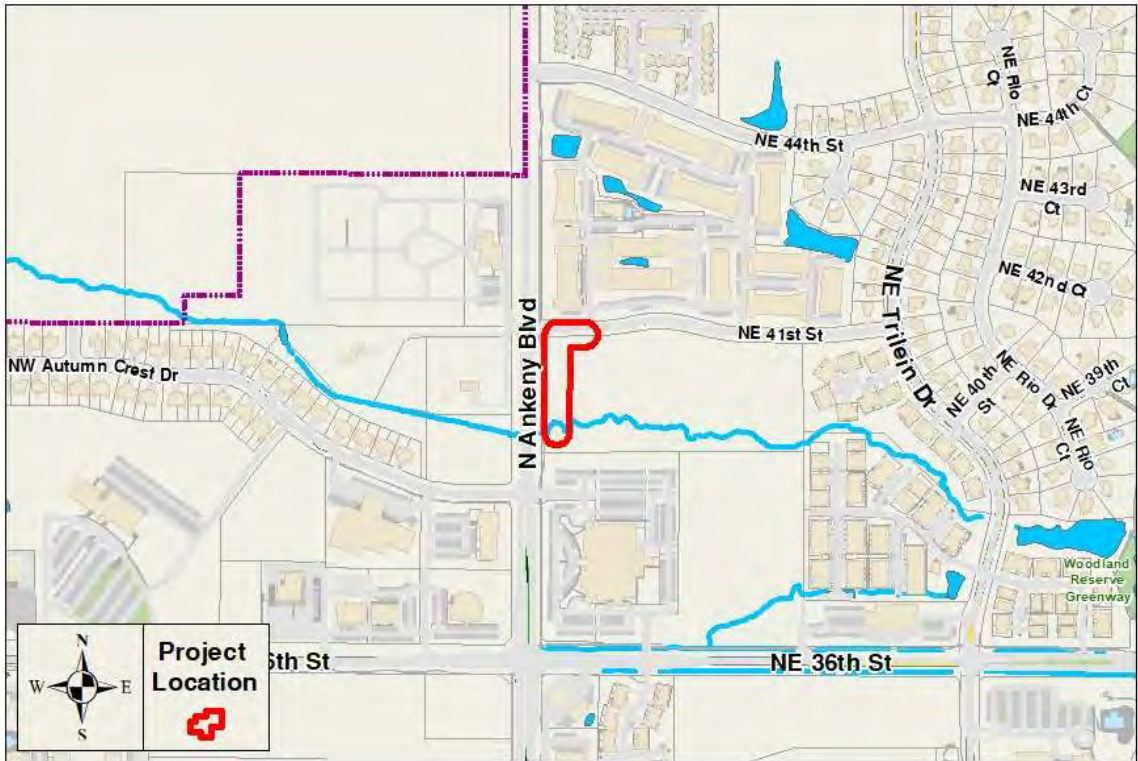
Budget Items	2022	2023	2024	2025	2026	Total
Utilities	55					55
Total	55					55

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 thru 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM- 22-002
Project Name	N Ankeny Blvd Water Main-NE 41st St to Unity Pt



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	WTM- 22-003
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 10,800 LF of 16" water main on the south side of NE 36th Street and the east side of County NE 38th Street to create a loop between the proposed 16" water main on the west side of County NE 29th Street along NE 36th Street (to be completed with the Spectrum 36 project) and the proposed 16" water main that ends north of NE 18th Street along County NE 38th Street (to be completed as part of the Canyon Landing project).

Justification

This project will connect the 16" distribution main near the intersection of NE 36th Street and County NE 29th Street to the 16" distribution main near the intersection of NE 18th Street and County 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	2022	2023	2024	2025	2026	Total
Engineering-Design		210,000				210,000
Engineering-Construction Services			210,000			210,000
Construction Costs			2,105,000			2,105,000
Land/ROW Acquisition		2,885				2,885
Total		212,885	2,315,000			2,527,885
Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds		212,885	2,315,000			2,527,885
Total		212,885	2,315,000			2,527,885

Budget Impact/Other

It will need about 675,000 gallons of water to fill and flush the new main.

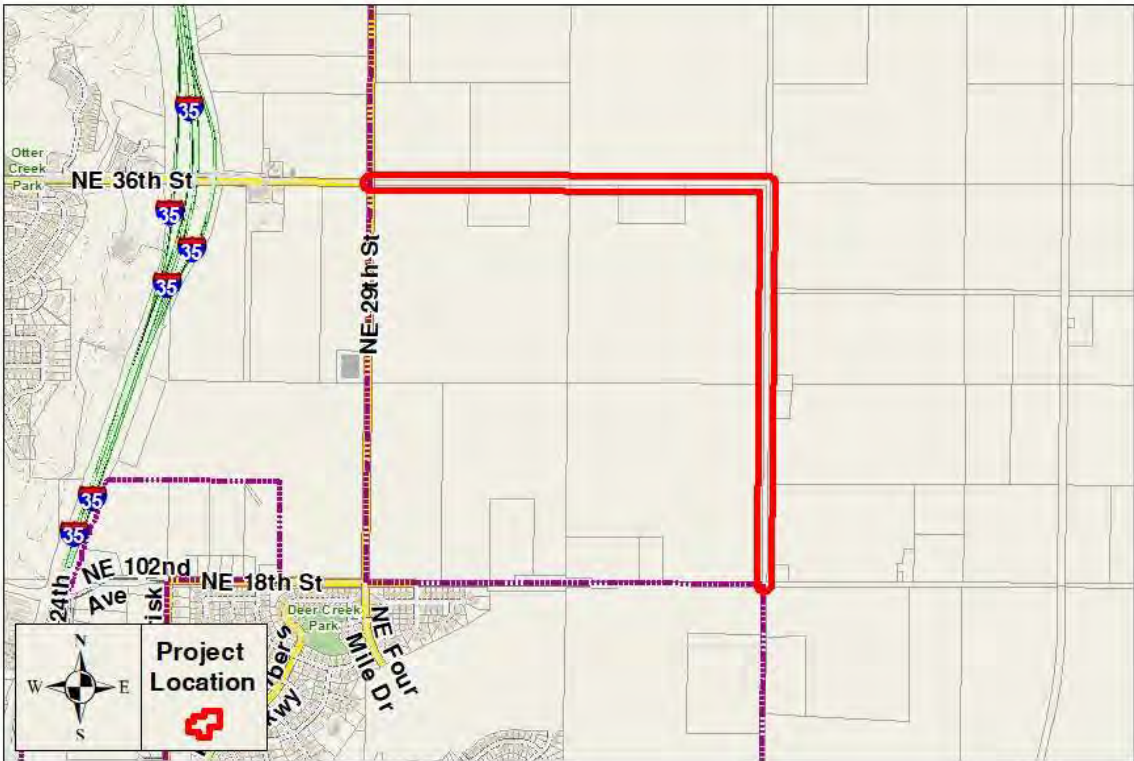
Budget Item s	2022	2023	2024	2025	2026	Total
Utilities			2,025			2,025
Total			2,025			2,025

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM- 22-003
Project Name	NE 36th St and NE 38th St Water Main Loop



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

City of Ankeny, Iowa

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

Project #	WTT-17- 002
Project Name	Aquifer Storage and Recovery Well #1 Replacement

Description

The preferred location for a new 2.0 MGD Aquifer Storage and Recovery (ASR) Well and associated water main for connecting it to the distribution system is the existing Ankeny Wastewater Treatment Plant. An option to further increase use of this ASR includes the flexibility to increase the capacity to approximately 3.0 MGD. This project is currently under design with the expectation of construction in 2022.

Justification

The purpose of this project is to replace the existing ASR Well No. 1 on SW Elm Street. Additional supply capacity is needed to meet high-water demand periods. Existing ASR Well No. 1 is reaching the end of its useful life, and it will take a few years of operation to get a recovery rate of 85% or better at the new site so this needs to be constructed at this time before existing ASR Well No. 1 is no longer able to be used.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Construction Services	400,000					400,000
Construction Costs	6,250,000					6,250,000
Land/ROW Acquisition	500,000					500,000
Total	7,150,000					7,150,000
Funding Sources	2022	2023	2024	2025	2026	Total
Capital Project Fund	1,055,656					1,055,656
Other Grants	6,094,344					6,094,344
Total	7,150,000					7,150,000

Budget Impact/Other

Since this is a replacement of an existing facility, the O&M cost should remain near current levels if not slightly less based on age of equipment. It is anticipated that we will use 50,000,000 gallons of water during the testing phase of the ASR plus all of the testing through a laboratory to satisfy all of the Iowa DNR and Federal EPA requirements to approve the construction of the ASR.

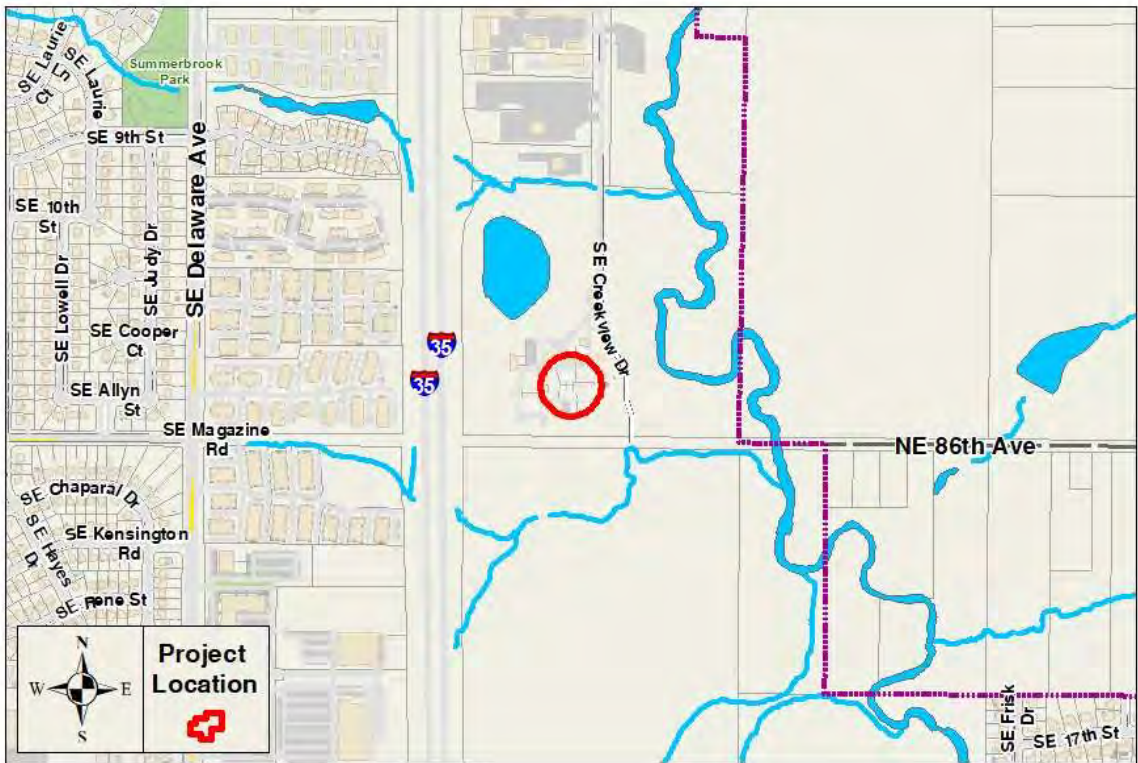
Budget Items	2022	2023	2024	2025	2026	Total
Utilities	175,000					175,000
Total	175,000					175,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

Project #	WTT-17-002
Project Name	Aquifer St orage and Recovery Well #1 Replacement



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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	Nort hwest Wat er Tow er

Description
Construct a new 2.25-million-gallon water tower on the northwest side of the City to provide additional water storage and more reliable water pressure and flow to the northwest side 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. This project was originally going to be a joint venture with Polk City and DMWW, but this water tower will now just be for the City of Ankeny.

Expenditures	2022	2023	2024	2025	2026	Total
Engineering-Design	350,000					350,000
Engineering-Construction Services		350,000				350,000
Construction Costs		6,800,000				6,800,000
Total	350,000	7,150,000				7,500,000

Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds	350,000	7,150,000				7,500,000
Total	350,000	7,150,000				7,500,000

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 Northwest Water Tower would take approximately 6,000,000 gallons of water.

Budget Item s	2022	2023	2024	2025	2026	Total
Utilities		18,000				18,000
Total		18,000				18,000

City of Ankeny, Iowa

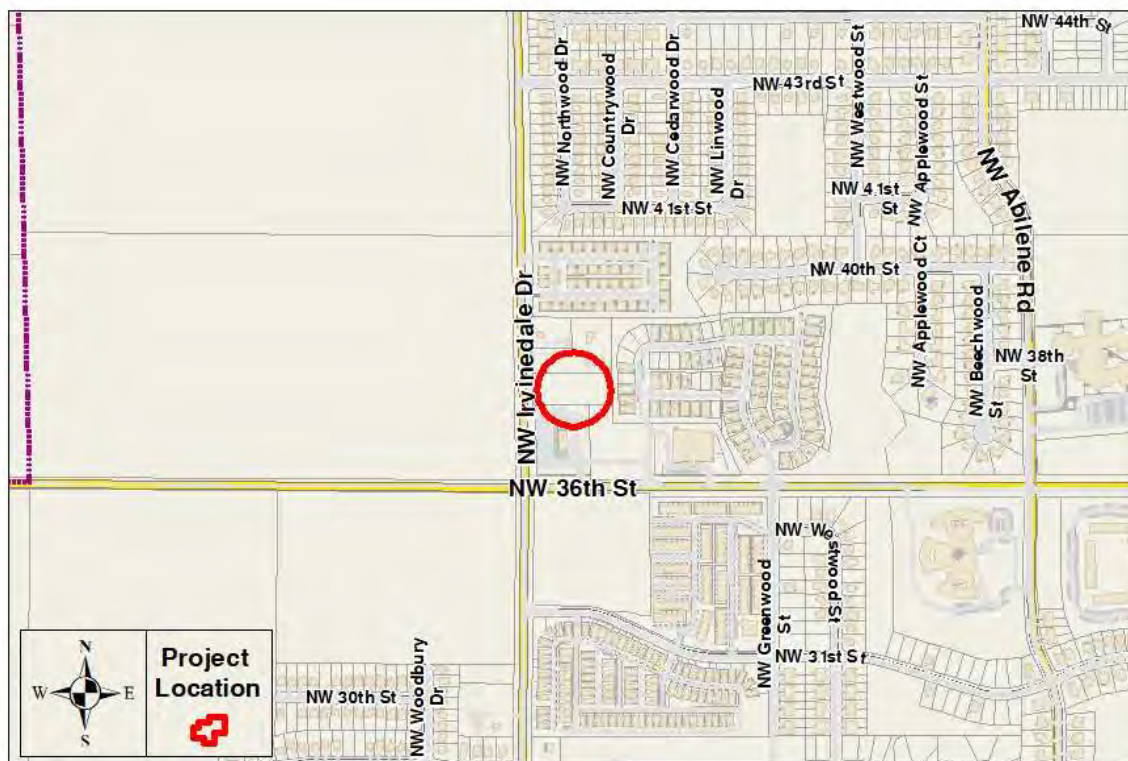
2022 *thru* 2026

Department Water Utility

Contact Municipal Utilities Director

Project # WTT-19-002

Project Name	Northwest Water Tower
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2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 S torage 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 and still has the previous City of Ankeny logo on it.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Maguire Iron completed a review of our existing water storage infrastructure and made recommendations to recoat both the interior and exterior of the SE Delaware Ground Storage Tank. This tank is showing signs of streaking and spotting rust in areas on both surfaces. 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	2022	2023	2024	2025	2026	Total
Engineering-Design		20,000				20,000
Construction Costs		280,000				280,000
Total		300,000				300,000

Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds		300,000				300,000
Total		300,000				300,000

Budget Impact/Other

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

Budget Items	2022	2023	2024	2025	2026	Total
Utilities		3,000				3,000
Total		3,000				3,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

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



2022 - 2026 Capital Improvement Program

2022 *thru* 2026

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 Mag azine Gro und Storage Tank R epaint

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 and still has the previous City of Ankeny logo on it.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Maguire Iron 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. 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	2022	2023	2024	2025	2026	Total
Engineering-Design			25,000			25,000
Construction Costs			375,000			375,000
Total			400,000			400,000

Funding Sources	2022	2023	2024	2025	2026	Total
Water Revenue Bonds			400,000			400,000
Total			400,000			400,000

Budget Impact/Other

The operating impact will include approximately 2,000,000 gallons to flush out the existing tank.

Budget Items	2022	2023	2024	2025	2026	Total
Utilities			6,000			6,000
Total			6,000			6,000

2022 - 2026 Capital Improvement Program
City of Ankeny, Iowa

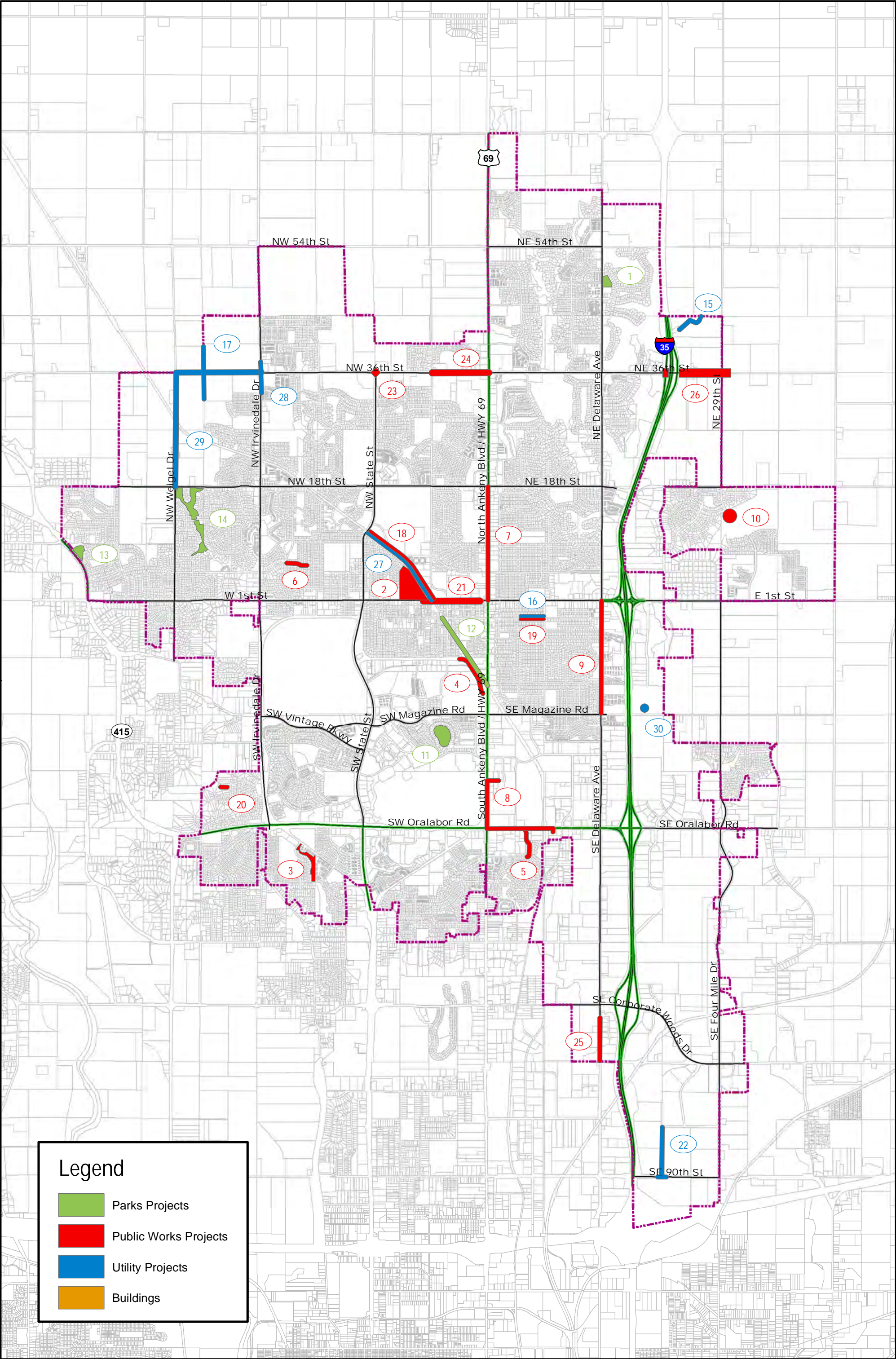
2022 *thru* 2026

Department Water Utility
Contact Municipal Utilities Director

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



Section 5



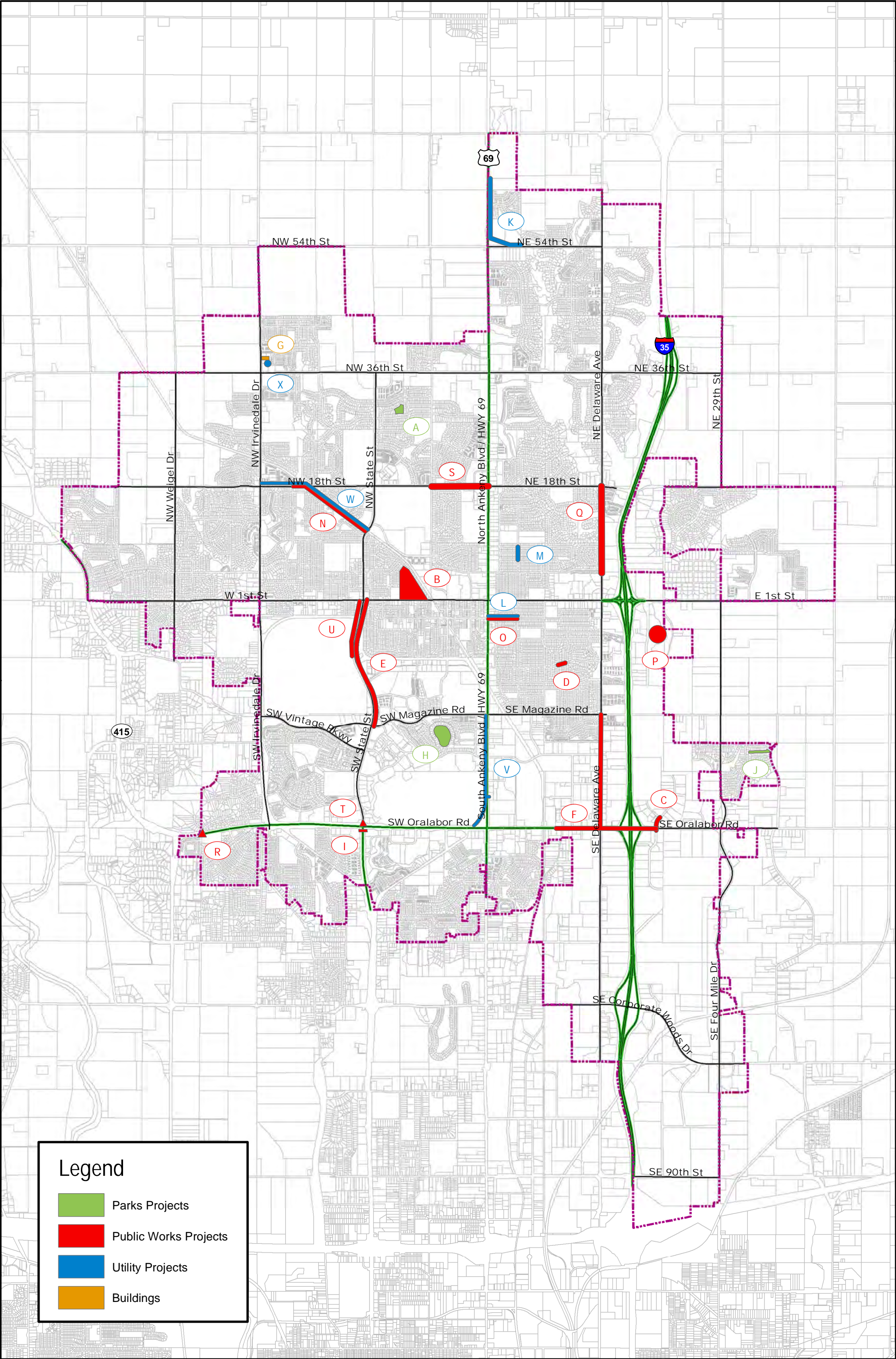
Legend

Parks Projects





Public Works Projects

Utility Projects

Buildings

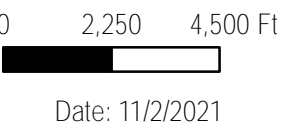


Legend

-  Parks Projects
-  Public Works Projects
-  Utility Projects
-  Buildings



2022 - 2026 Capital Improvement Program
Proposed 2023 Construction Projects



PUBLIC WORKS
DEPARTMENT
ENGINEERING
DIVISION



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