



CITY OF ANKENY, IOWA | CALENDAR YEARS 2021 - 2025

2021 2025 CAPITAL IMPROVEMENT PROGRAM



2021-2025

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 2022 budget. It includes the costs associated with the 2021 capital projects, the first year of the 2021-2025 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 2021-2025 Capital Improvement Program reflects a \$1,839,703 decrease in project expenditures over last year's program. Increases in the sewer, storm water and streets categories are being offset by decreases in the municipal buildings and water categories. The sewer and storm water categories have grown as a result of adding the Four Mile Creek Trunk Sewer and SE 3rd Street Area Collection Storm Sewer Improvements to the program. The largest projects in the streets category include the NE Delaware Avenue Reconstruction from NE 5th Street to NE 18th Street and the West 1st Street Widening and Improvements – Phase 1. The decrease in the municipal buildings and water categories is related to the completion of the Ankeny Public Services Library Remodel and Irvinedale Drive Transmission Main – Phase 2 in 2020.

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; and
- 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 2021-2025 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 2021 capital improvement projects will become part of the adopted 2022 budget, the emphasis in the capital improvement process is on the 2021 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 2021-2025, the capital improvement program totals \$147,626,167. Of this total, 47% is identified for transportation projects, 37% for municipal utilities (water, sewer and storm water) projects, 7% for municipal buildings, 4% for sidewalks/trails and 5% for parks.

Capital budget requirements for 2021 total \$38,892,667. Capital spending authorizations by project category for the upcoming year include:

Bridge/Box Culvert	\$1,041,000	2.68%
Municipal Buildings	4,485,000	11.53%
Parks	1,656,000	4.26%
Sewer	3,476,000	8.94%
Sidewalks/Trails	3,135,000	8.06%
Storm Water	790,000	2.03%
Streets	17,981,667	46.23%
Traffic Control	1,565,000	4.02%
Water	4,463,000	11.48%
Water Towers/Storage	300,000	0.77%

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 the projects and timing of these projects.

The financial plan presents a diversified approach to funding the 2021-2025 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 2021-2025 Capital Improvement Program.

Funding Source	Revenue (\$)	% of Revenue
Property Taxes	\$49,609,167	33%
Grants and Intergovernmental	11,532,000	8%
Tax Increment Financing	4,260,000	3%
Municipal Utilities Revenues	52,716,000	36%
Miscellaneous Revenues	29,509,000	20%
Total	\$147,626,167	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 second largest source of revenue for the capital improvement program representing \$49,609,167, 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 \$11,532,000 to be received from grant awards or intergovernmental assistance, representing 8% of all revenue sources.

The projects most dependent upon grants and intergovernmental support are the High Trestle Trail Extension from SE Magazine Road to SE Oralabor Road, West 1st Street Widening and Improvements – Phase 1 and NE Delaware Avenue Reconstruction – NE 5th Street to NE 18th Street. Staff has secured \$1.2 million, \$3.03 million and \$2.7 million, respectively for these three projects from the Des Moines Area Metropolitan Planning Organization (MPO) and the Iowa Department of Transportation (DOT).

For 2020, staff has secured \$1.97 million from the Des Moines Area MPO and \$2.98 million from the Iowa DOT for various sidewalk/trails and streets projects. An additional \$50,000 has been received from BRAVO for the High Trestle Trail Trailhead Restroom and Amenities project.

TAX INCREMENT FINANCING

Of the five funding sources, \$4,260,000, or 3%, is being financed through TIF abatement. The West 1st Street Widening and Improvements – Phase 1 project is planned for construction in 2021 and 2022. In 2022, the program also includes the Uptown Parking Improvements project. Both of these projects are located within the Ankeny 1991 Urban Renewal Area.

MUNICIPAL UTILITIES

The municipal utilities (water, sewer, and storm water) help support numerous infrastructure projects to ensure each utility can adequately provide service to Ankeny's utility customers. Resources from the utility funds make up \$52,716,000, or 36%, of the capital improvement program financial plan.

Projects within the annual utility programs for 2021 include:

- NW Northlawn Area utility improvements;
- Sanitary sewer spot repairs, manhole repairs and slip lining;
- Storm water projects include the Saylor Creek Tributary from SW Prairie Trail Parkway to SW Oralabor Road – repair and stabilize eroded steam banks, Saylor Creek from SW Oralabor Road to SW State Street – remove collapsed bridge and NW 9th Street and Greenwood Street storm sewer extension; and
- SE 8th Street from SE Sharon Drive to South Ankeny Boulevard water main improvements

Major utility projects planned for 2021 include the West Outfall Basin Sanitary Trunk Sewer Improvements, Canyon Landing Sanitary Sewer Cost Share, Irvinedale Drive Transmission Main – Phase 3 and NW 36th Street and NW Weigel Drive Water Main Loop.

MISCELLANEOUS REVENUES

The financial plan includes contributions from miscellaneous sources totaling \$29,509,000, or 20%, of the 2021-2025 Capital Improvement Program. This includes capital project fund cash balances, capital reserve fund cash balances, civic trust fund contributions, general fund cash balances, hotel/motel tax fund revenues, park dedication fund cash balances, private contributions, road use tax fund revenues and special assessments.

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 2021 through 2025 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

2021-2025 Capital Improvement Program

2021 CIP Projects by Funding Source

Project	Project #	2021	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	\$ 495,000	\$ 297,000							\$ 198,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	225,000									125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	755,000								755,000				
Annual Storm Water Replacement Program	STM-00-001	345,000								345,000				
Annual PCC Street Patching Program	STR-00-001	1,150,000	1,150,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	245,000	200,000							45,000				
Annual Pavement Preservation Program	STR-00-003	250,000	250,000											
Annual Street Replacement Program	STR-00-004	1,025,000										1,025,000		
Annual Traffic Signal Improvement Program	TRF-00-001	1,565,000	1,015,000							50,000		500,000		
Annual Water Main Replacement Program	WTM-00-001	950,000								950,000				
Park Maintenance Facility Renovations	BLD-18-001	715,000											715,000	
Senior Community Center	BLD-18-003	3,060,000											1,560,000	1,500,000
HVAC Replacement - City Hall	BLD-18-004	560,000											560,000	
Fire Station No. 4	BLD-20-002	150,000								150,000				
NE Four Mile Drive RCB Culvert - Deer Creek	BRG-17-001	1,041,000	66,000							975,000				
Parks Renovation Plan	PRK-17-003	265,000								265,000				
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	356,000	31,000							325,000				
Signature Park Land Acquisition	PRK-20-006	10,000								10,000				
Ankeny Kirkendall Public Library Playground	PRK-20-007	225,000											225,000	
High Trestle Trail Trailhead Restroom and Amenities	PRK-21-001	250,000							50,000		200,000			
Des Moines Street Parks Development	PRK-21-002	55,000												55,000
High Trestle Trail Extension - SE Magazine Road to SE Oralabor Road	SDW-16-001	2,750,000	1,550,000						1,200,000					
Oralabor Gateway Trail - SW State Street Grade-Separated Crossing	SDW-19-001	35,000	35,000											
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	361,000								361,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	165,000								165,000				
West Outfall Basin Sanitary Trunk Sewer Improvements	SNS-20-003	1,265,000								1,265,000				
Canyon Landing Sanitary Sewer Cost Share	SNS-21-001	930,000								930,000				
High Trestle Trail Channel Stabilization - Phase 1	STM-20-002	155,000								155,000				
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	15,000								15,000				
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	225,000								225,000				
Westwinds Storm Sewer Extension	STM-21-002	50,000								50,000				
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	666,667	666,667											
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	250,000	250,000											
NW 18th Street Extension - NW Weigel Drive to NW Spruce Drive	STR-16-002	5,900,000	2,486,000							2,000,000				1,414,000
West 1st Street Widening and Improvements - Phase 1	STR-16-004	3,675,000			2,160,000				1,515,000					
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	125,000								125,000				
South Ankeny Boulevard and Magazine Road Safety Improvements	STR-19-007	470,000	130,000						340,000					
SE Crosswinds Drive/SE 77th Street Improvements - Phase 2	STR-19-008	2,580,000							1,887,000					693,000
NW 26th Street Widening	STR-20-002	250,000	250,000											
NW 36th Street and NW State Street Interim Improvements	STR-20-003	50,000	50,000											
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	50,000	50,000											
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	375,000	375,000											
SE Delaware Avenue Widening	STR-20-006	100,000	100,000											
SE Delaware Avenue and SE Corporate Woods Drive Intersection Improvements	STR-20-007	550,000	550,000											
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	120,000	120,000											
NE 18th Street Asphalt Overlay - NE Meadow View Court to County NE 38th Street	STR-21-002	150,000										150,000		
High Trestle Trail Transmission Main - Phase 1	WTM-17-001	125,000					125,000							
Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	1,888,000					1,888,000							
NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,500,000					1,500,000							
Aquifer Storage and Recovery Well No. 1 Replacement	WTT-17-002	300,000					300,000							
		\$ 38,892,667	\$ 9,846,667	\$ -	\$ 2,160,000	\$ -	\$ 3,813,000	\$ -	\$ 4,992,000	\$ 9,359,000	\$ 200,000	\$ 1,800,000	\$ 3,060,000	\$ 3,662,000

2021 Bond Issue Project Costs	\$12,006,667
Cost of Issuance	148,333
Projected 2021 Bond Issue Total	\$12,155,000

2021-2025 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	\$ 380,000	\$ 300,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	225,000									125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,105,000								1,105,000				
Annual Storm Water Replacement Program	STM-00-001	250,000								250,000				
Annual PCC Street Patching Program	STR-00-001	1,000,000	1,000,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	150,000	150,000											
Annual Pavement Preservation Program	STR-00-003	250,000	250,000											
Annual Street Replacement Program	STR-00-004	825,000	305,000							400,000		120,000		
Annual Traffic Signal Improvement Program	TRF-00-001	625,000	625,000											
Annual Water Main Replacement Program	WTM-00-001	600,000								600,000				
Lakeside Center Repurposing	BLD-21-001	7,500											7,500	
Public Works Winter Operations Satellite Facility	BLD-21-002	40,000										40,000		
Signature Park Land Acquisition	PRK-20-006	2,000,000								1,840,000			160,000	
Des Moines Street Parks Development	PRK-21-002	475,000												475,000
Oralabor Gateway Trail - SW State Street Grade-Separated Crossing	SDW-19-001	205,000	205,000											
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	1,989,000								1,989,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	1,694,000								1,694,000				
High Trestle Trail Channel Stabilization - Phase 1	STM-20-002	1,190,000		1,190,000										
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	215,000		215,000										
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	30,000		30,000										
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	810,000		410,000						400,000				
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	775,000								775,000				
West 1st Street Widening and Improvements - Phase 1	STR-16-004	3,315,000			1,800,000				1,515,000					
North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001	60,000	30,000								30,000			
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	600,000	600,000											
NW 36th Street and NW State Street Interim Improvements	STR-20-003	465,000	465,000											
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	150,000	150,000											
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	3,950,000	3,950,000											
SE Delaware Avenue Widening	STR-20-006	900,000	900,000											
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	140,000	140,000											
SW State Street Reconstruction - SW Ordnance Road to West 1st Street (Southbound Lanes)	STR-21-001	75,000	75,000											
Uptown Parking Improvements	STR-21-006	300,000			300,000									
High Trestle Trail Transmission Main - Phase 1	WTM-17-001	1,150,000					1,150,000							
South Ankeny Boulevard Transmission Main	WTM-18-001	210,000					210,000							
High Trestle Trail Transmission Main - Phase 2	WTM-21-001	200,000					200,000							
Aquifer Storage and Recovery Well No. 1 Replacement	WTT-17-002	4,150,000					4,150,000							
Northwest Water Tower	WTT-19-002	300,000					300,000							
		\$ 30,930,500	\$ 9,370,000	\$ 1,845,000	\$ 2,100,000	\$ -	\$ 6,010,000	\$ -	\$ 1,515,000	\$ 9,133,000	\$ 30,000	\$ 285,000	\$ 167,500	\$ 475,000

2022 Bond Issue Project Costs	\$ 13,315,000
Cost of Issuance	190,000
Projected 2022 Bond Issue Total	\$ 13,505,000

2021-2025 Capital Improvement Program

2023 CIP Projects by Funding Source

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	\$ 380,000	\$ 300,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	225,000									125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	580,000								580,000				
Annual Storm Water Replacement Program	STM-00-001	250,000								250,000				
Annual PCC Street Patching Program	STR-00-001	975,000	975,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	150,000	150,000											
Annual Pavement Preservation Program	STR-00-003	250,000	250,000											
Annual Street Replacement Program	STR-00-004	1,150,000	1,150,000											
Annual Traffic Signal Improvement Program	TRF-00-001	590,000	590,000											
Annual Water Main Replacement Program	WTM-00-001	575,000								575,000				
Community Entrance Signs	BLD-18-002	50,000									50,000			
Lakeside Center Repurposing	BLD-21-001	180,000											180,000	
Public Works Winter Operations Satellite Facility	BLD-21-002	350,000										350,000		
Des Moines Street Parks Development	PRK-21-002	80,000												80,000
Oralabor Gateway Trail - SW State Street Grade-Separated Crossing	SDW-19-001	1,650,000	550,000						1,100,000					
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	195,000								195,000				
Four Mile Creek Channel Stabilization	STM-20-001	55,000		55,000										
High Trestle Trail Channel Stabilization - Phase 2	STM-20-003	1,735,000		1,735,000										
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	280,000		280,000										
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	810,000		410,000						400,000				
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	160,000		160,000										
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	4,025,000	800,000						1,000,000	2,225,000				
North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001	1,055,000	477,500						100,000		477,500			
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	75,000	75,000											
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	1,725,000	1,725,000											
SW Oralabor Road and SW State Street Safety Improvements	STR-20-008	2,010,000	1,010,000						1,000,000					
SW State Street Reconstruction - SW Ordnance Road to West 1st Street (Southbound Lanes)	STR-21-001	1,375,000	1,375,000											
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	50,000	50,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	10,000										10,000		
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	2,165,000					2,165,000							
South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001	100,000					100,000							
High Trestle Trail Transmission Main - Phase 2	WTM-21-001	2,000,000					2,000,000							
Northwest Water Tower	WTT-19-002	6,300,000					6,300,000							
SE Delaware Ground Storage Tank Repaint	WTT-20-001	300,000					300,000							
		\$ 32,260,000	\$ 9,802,500	\$ 2,640,000	\$ -	\$ -	\$ 10,865,000	\$ -	\$ 3,325,000	\$ 4,305,000	\$ 527,500	\$ 535,000	\$ 180,000	\$ 80,000

2023 Bond Issue Project Costs	\$ 12,442,500
Cost of Issuance	172,500
Projected 2023 Bond Issue Total	\$ 12,615,000

2021-2025 Capital Improvement Program

2024 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2024	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	\$ 380,000	\$ 300,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	225,000									125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,105,000								1,105,000				
Annual Storm Water Replacement Program	STM-00-001	250,000								250,000				
Annual PCC Street Patching Program	STR-00-001	1,000,000	1,000,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	150,000	150,000											
Annual Pavement Preservation Program	STR-00-003	250,000	250,000											
Annual Street Replacement Program	STR-00-004	1,200,000	1,200,000											
Annual Traffic Signal Improvement Program	TRF-00-001	590,000	590,000											
Annual Water Main Replacement Program	WTM-00-001	600,000								600,000				
Community Entrance Signs	BLD-18-002	85,000									85,000			
Fire Station No. 4	BLD-20-002	500,000											500,000	
SE Frisk Drive RCB Culvert	BRG-20-001	310,000	310,000											
Hawkeye Park Sports Complex - Tennis Courts Reconstruction	PRK-18-003	700,000	700,000											
Des Moines Street Parks Development	PRK-21-002	725,000												725,000
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	1,030,000								1,030,000				
Four Mile Creek Trunk Sewer	SNS-20-001	175,000								175,000				
Sawgrass Park Dam Improvements	STM-19-004	85,000		85,000										
Four Mile Creek Channel Stabilization	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	5,325,000	3,625,000						1,700,000					
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	75,000	75,000											
North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001	330,000	165,000								165,000			
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	475,000	475,000											
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	100,000	100,000											
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	325,000	325,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	175,000	175,000											
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	1,310,000					1,310,000							
NW State Street Water Main Improvements	WTM-19-003	100,000					100,000							
SE Magazine Ground Storage Tank Repaint	WTT-20-002	400,000					400,000							
		\$ 22,861,000	\$ 9,665,000	\$ 3,745,000	\$ -	\$ -	\$ 2,511,000	\$ -	\$ 1,700,000	\$ 3,640,000	\$ 250,000	\$ 125,000	\$ 500,000	\$ 725,000

2024 Bond Issue Project Costs	\$ 13,410,000
Cost of Issuance	190,000
Projected 2024 Bond Issue Total	\$ 13,600,000

2021-2025 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	\$ 380,000	\$ 300,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	225,000									125,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	655,000								655,000				
Annual Storm Water Replacement Program	STM-00-001	250,000								250,000				
Annual PCC Street Patching Program	STR-00-001	1,050,000	1,050,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	150,000	150,000											
Annual Pavement Preservation Program	STR-00-003	250,000	250,000											
Annual Street Replacement Program	STR-00-004	1,250,000	1,250,000											
Annual Traffic Signal Improvement Program	TRF-00-001	590,000	590,000											
Annual Water Main Replacement Program	WTM-00-001	650,000								650,000				
Community Entrance Signs	BLD-18-002	85,000									85,000			
Fire Station No. 4	BLD-20-002	4,900,000											4,900,000	
Des Moines Street Parks Development	PRK-21-002	75,000												75,000
Four Mile Creek Trunk Sewer	SNS-20-001	1,825,000								1,825,000				
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				
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	325,000	325,000											
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	2,450,000	2,450,000											
NW 18th Street Extension - NW Spruce Drive to Iowa Highway 415	STR-18-004	50,000	50,000											
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	1,025,000	1,025,000											
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	2,900,000	2,900,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	235,000	235,000											
NW State Street Water Main Improvements	WTM-19-003	1,050,000					1,050,000							
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	117,000					117,000							
		\$ 22,682,000	\$ 10,925,000	\$ 1,545,000	\$ -	\$ -	\$ 1,167,000	\$ -	\$ -	\$ 3,860,000	\$ 85,000	\$ 125,000	\$ 4,900,000	\$ 75,000

2025 Bond Issue Project Costs	\$ 12,470,000
Cost of Issuance	185,000
Projected 2025 Bond Issue Total	\$ 12,655,000

<u>Annual Park Development Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 378,311	\$ 231,960	\$ 113,960	\$ 113,960	\$ 113,960	\$ 113,960
<u>Transfers In</u>						
General Obligation Bonds	\$ 550,000	\$ 297,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Park Dedication Fund	\$ 50,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
Memorial and Tribute Program	\$ 2,200					
Total Transfers In	\$ 602,200	\$ 377,000	\$ 380,000	\$ 380,000	\$ 380,000	\$ 380,000
<u>Project Expenditures</u>						
Memorial and Tribute Program	\$ 938					
Hawkeye Park Pond Improvements (Outlet Structure, Dredging, Trail Realignment, Shore Stabilization and Fishing Pier)	\$ 576,526					
Centennial Park Development (Master Plan, Storm Water Drainage and Turf Improvements)	\$ 98,275					
White Birch Park and Georgetown Park Shelters	\$ 72,813					
Centennial Park Development (Playground, Parking Lot, Trail Loop and Shelter)		\$ 450,000				
Otter Creek Park Baseball Diamond Installation		\$ 25,000				
Parks Signs: Centennial, Estates, Westview and Wildflower		\$ 20,000				
Bellagio Park Development (Playground, Trail Connection and Shelter)			\$ 380,000			
Aspen Ridge Park Development (Playground, Trail Connection and Shelter)				\$ 380,000		
Watercrest Park Expansion (Splash Pad, Shelter and Trail Loop)					\$ 380,000	
Other Projects TBD (based on park dedication, development funding and pace of development)						\$ 380,000
Total Project Expenditures	\$ 748,552	\$ 495,000	\$ 380,000	\$ 380,000	\$ 380,000	\$ 380,000
Remaining Cash Balance	<u>\$ 231,960</u>	<u>\$ 113,960</u>	<u>\$ 113,960</u>	<u>\$ 113,960</u>	<u>\$ 113,960</u>	<u>\$ 113,960</u>

Annual Sidewalk/Trail Construction Program

<u>Annual Sidewalk/Trail Construction Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 278,550	\$ 77,145	\$ 77,145	\$ 77,145	\$ 77,145	\$ 77,145
Transfers In						
General Obligation Bonds	\$ 100,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000
Road Use Tax Fund	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Dog Park Parking Lot Expansion Fund - Close Project Fund	\$ 42,000					
Total Transfers In	\$ 267,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
Project Expenditures						
Sidewalk Oversizing	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Sidewalk and Pedestrian Ramp Gaps		\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000
Pedestrian Ramp Improvements for ADA Compliance	\$ 165,132	\$ 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
Otter Ridge Trail Panel Replacements	\$ 48,242					
SE Magazine Road 8' Sidewalk Upgrade - Phase 3 (SE Trilein Drive to SE Delaware Avenue)	\$ 19,052					
SE Shurfine Drive Sidewalk Connection	\$ 108,134					
SW 3rd Street and SW Maple Street Pedestrian Ramp Improvements	\$ 52,845					
Total Project Expenditures	\$ 468,405	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
Remaining Cash Balance	\$ 77,145	\$ 77,145	\$ 77,145	\$ 77,145	\$ 77,145	\$ 77,145

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 2,321,663	\$ 1,308,347	\$ 1,350,203	\$ 845,203	\$ 865,203	\$ 360,203
<u>Transfers In</u>						
Sewer Fund	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Special Assessments Fund - Close Project Fund		\$ 196,857				
Total Transfers In	\$ 500,000	\$ 796,857	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
<u>Project Expenditures</u>						
Sanitary Sewer Oversizing	\$ 34,378	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs and Slip Lining	\$ 946,383	\$ 75,000	\$ 575,000	\$ 75,000	\$ 575,000	\$ 75,000
SE Eastlawn Area Utility Improvements	\$ 387,531					
NW Northlawn Area Utility Improvements	\$ 145,024	\$ 650,000	\$ 500,000	\$ 450,000	\$ 450,000	
Future Utility Improvements Projects (TBD)				\$ 25,000	\$ 50,000	\$ 550,000
Total Project Expenditures	\$ 1,513,316	\$ 755,000	\$ 1,105,000	\$ 580,000	\$ 1,105,000	\$ 655,000
Remaining Cash Balance	<u>\$ 1,308,347</u>	<u>\$ 1,350,203</u>	<u>\$ 845,203</u>	<u>\$ 865,203</u>	<u>\$ 360,203</u>	<u>\$ 305,203</u>

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 258,036	\$ 413,356	\$ 318,356	\$ 318,356	\$ 318,356	\$ 318,356
<u>Transfers In</u>						
Storm Water Fund	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Federal Emergency Management Agency (FEMA)	\$ 120,585					
SE Peterson Drive and SE Trilein Drive Storm Sewer Fund - Close Project Fund	\$ 39,204					
Total Transfers In	\$ 409,789	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
<u>Project Expenditures</u>						
North Creek Slope and Channel Flood Repair - Design	\$ 2,784					
Saylor Creek Repairs and Stabilization - Design and Construct	\$ 82,085					
Triangle Detention Basin Outlet Modification - Design and Construct	\$ 79,600					
Magazine Road Storm Sewer Improvements - Construct	\$ 50,000					
Saylor Creek Tributary - SW Prairie Trail Parkway to SW Oralabor Road, Repair and Stabilize Eroded Stream Banks - Design and Construct		\$ 170,000				
Saylor Creek - SW Oralabor Road to SW State Street, Remove Collapsed Bridge - Design and Construct		\$ 75,000				
NW 9th Street and Greenwood Street Storm Sewer Extension - Construct		\$ 60,000				
Storm Water Conservation Design Features within City Property	\$ 10,000	\$ 10,000				
Storm Water Projects (TBD)	\$ 30,000	\$ 30,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Project Expenditures	\$ 254,469	\$ 345,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Remaining Cash Balance	\$ 413,356	\$ 318,356	\$ 318,356	\$ 318,356	\$ 318,356	\$ 318,356

<u>Annual PCC Street Patching Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 222,514	\$ 180,363	\$ 180,363	\$ 180,363	\$ 180,363	\$ 180,363
Transfers In						
General Obligation Bonds	\$ 940,000	\$ 1,150,000	\$ 1,000,000	\$ 975,000	\$ 1,000,000	\$ 1,050,000
Total Transfers In	\$ 940,000	\$ 1,150,000	\$ 1,000,000	\$ 975,000	\$ 1,000,000	\$ 1,050,000
Project Expenditures						
2019 Surface Restoration	\$ 9,730					
SE Eastlawn Area Utility Improvements	\$ 390,076					
NW Northlawn Area Utility Improvements	\$ 139,587	\$ 650,000	\$ 500,000	\$ 450,000	\$ 450,000	
Future Utility Improvements Projects (TBD)				\$ 25,000	\$ 50,000	\$ 550,000
Full-Depth Street Patches and Intake Replacements	\$ 442,759	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Total Project Expenditures	\$ 982,151	\$ 1,150,000	\$ 1,000,000	\$ 975,000	\$ 1,000,000	\$ 1,050,000
Remaining Cash Balance	\$ 180,363	\$ 180,363	\$ 180,363	\$ 180,363	\$ 180,363	\$ 180,363

Projected
2021

Projected
2023

Projected
2024

Projected
2025

<u>Annual Asphalt Street Resurfacing Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 121,683	\$ 203,442	\$ 158,442	\$ 158,442	\$ 158,442	\$ 158,442
Transfers In						
General Obligation Bonds	\$ 190,000	\$ 200,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Total Transfers In	\$ 190,000	\$ 200,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Project Expenditures						
Mill and Overlay Project	\$ 19,000					
SW Railroad Drive Overlay - SW Ordnance Road to SW Walnut Street	\$ 51,891					
SE Oralabor Road Overlay - SE Four Mile Drive to City Limits	\$ 12,350					
Cost share for asphalt overlay of public streets related to private development projects	\$ 25,000					
Lakeside Center Parking Lot and Access Drive Overlay		\$ 200,000				
SE Corporate Woods Drive Overlay - SE Delaware Avenue to City Limits		\$ 45,000				
SW Goodwin Street Overlay			\$ 110,000			
SE Corporate Woods Drive Overlay - SE Four Mile Drive to City Limits			\$ 40,000			
Asphalt Street Resurfacing (TBD)				\$ 150,000	\$ 150,000	\$ 150,000
Total Project Expenditures	\$ 108,241	\$ 245,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Remaining Cash Balance	\$ 203,442	\$ 158,442	\$ 158,442	\$ 158,442	\$ 158,442	\$ 158,442

	<u>Projected</u> <u>2020</u>	<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>Annual Pavement Preservation Program</u>						

Beginning Cash Balance	\$ 47,609	\$ 71,300	\$ 71,300	\$ 71,300	\$ 71,300	\$ 71,300
Transfers In						
General Obligation Bonds	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Transfers In	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Project Expenditures						
2020 Pavement Preservation Program	\$ 226,308					
2021 Pavement Preservation Program		\$ 250,000				
2022 Pavement Preservation Program			\$ 250,000			
2023 Pavement Preservation Program				\$ 250,000		
2024 Pavement Preservation Program					\$ 250,000	
2025 Pavement Preservation Program						\$ 250,000
Total Project Expenditures	\$ 226,308	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Remaining Cash Balance	\$ 71,300	\$ 71,300	\$ 71,300	\$ 71,300	\$ 71,300	\$ 71,300

Annual Street Replacement Program

	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 254,766	\$ 624,215	\$ 624,215	\$ 224,215	\$ 224,215	\$ 224,215
Transfers In						
General Obligation Bonds	\$ 815,000		\$ 305,000	\$ 1,150,000	\$ 1,200,000	\$ 1,250,000
Road Use Tax Fund	\$ 985,000	\$ 1,025,000	\$ 120,000			
Annual Water Main Replacement Fund - SE 8th Street - SE Oak Drive to SE Sharon Drive Water Main Improvements	\$ 123,990					
Total Transfers In	\$ 1,923,990	\$ 1,025,000	\$ 425,000	\$ 1,150,000	\$ 1,200,000	\$ 1,250,000
Project Expenditures						
SE 8th Street - SE Oak Drive to SE Sharon Drive - Construct & Inspect	\$ 1,043,210					
NW 9th Street - NW Park Lane to NW Cedarwood Drive - Construct	\$ 438,031					
SE 8th Street - South Ankeny Boulevard to SE Oak Drive - Design	\$ 73,300					
SE 8th Street - South Ankeny Boulevard to SE Oak Drive - Construct and Inspect		\$ 1,025,000				
SE Peachtree Drive - SE Aster Court to SE Oralabor Road - Construct			\$ 400,000			
SE 8th Street - SE Rio Circle to SE Wanda Drive - Construct			\$ 425,000			
NW 5th Street - NW Greenwood Street to NW Applewood Street - Construct				\$ 675,000		
Street Replacement (TBD)				\$ 475,000	\$ 1,200,000	\$ 1,250,000
Total Project Expenditures	\$ 1,554,541	\$ 1,025,000	\$ 825,000	\$ 1,150,000	\$ 1,200,000	\$ 1,250,000
Remaining Cash Balance	\$ 624,215	\$ 624,215	\$ 224,215	\$ 224,215	\$ 224,215	\$ 224,215

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 223,506	\$ 181,441	\$ 131,441	\$ 131,441	\$ 131,441	\$ 131,441
<u>Transfers In</u>						
General Obligation Bonds	\$ 1,065,000	\$ 1,015,000	\$ 625,000	\$ 590,000	\$ 590,000	\$ 590,000
Road Use Tax Fund		\$ 500,000				
Total Transfers In	\$ 1,065,000	\$ 1,515,000	\$ 625,000	\$ 590,000	\$ 590,000	\$ 590,000
<u>Project Expenditures</u>						
SW State Street and SW Prairie Trail Parkway Signal and Intersection Improvements	\$ 70,905					
Fiber Optic Conduit Connection between New Library and Police Station	\$ 106					
Audible Pushbutton System Upgrade at SW State Street and SW Vintage Parkway Signal	\$ 11,688					
Emergency Traffic Signal Pole Replacement	\$ 34,381					
NE 18th Street and NE Trilein Drive Signal and Fiber Optic Upgrade	\$ 508,049					
East 1st Street Fiber Optic Upgrade	\$ 145,568					
New Public Services Building Fiber Optic Upgrade	\$ 51,574					
High Trestle Trail Crossing at NW State Street HAWK Signal and Fiber Optic Connection	\$ 145,193					
SE Delaware Avenue and SE 8th Street Signal, Left Turn Lanes and Fiber Optic Connection	\$ 139,600	\$ 1,065,000		\$ 200,000		
North Ankeny Boulevard and NE 54th Street Signal and Left Turn Lanes		\$ 150,000				
SE Corporate Woods Drive and SE Convenience Boulevard Signal and Lane Modifications		\$ 200,000				
NE 36th Street and NE Otterview Circle Signal		\$ 150,000				
North Ankeny Boulevard Fiber Optic Upgrade - 1st Street to 18th Street			\$ 195,000			

SE Quadrant Fiber Optic Upgrade, Phase 1 - Public Works Maintenance Facility to Hub Cabinet at Gay Lea Wilson Trail			\$ 175,000			
South Ankeny Boulevard and SE 8th Street Signal - Replace Traffic Detection and North Ankeny Boulevard and NE 54th Street Signal - Add Wireless Communication			\$ 40,000			
SW Quadrant Fiber Optic Upgrade, Phase 1 - SW State Street between SW Magazine Road and 1st Street			\$ 175,000			
High Trestle Trail Crossing at NW Irvinedale Drive and NW 18th Street Rectangular Rapid Flashing Beacon (RRFB)			\$ 40,000			
Miscellaneous Upgrades (TBD)				\$ 40,000	\$ 40,000	\$ 40,000
Traffic Signal and Fiber Optic Projects (TBD)				\$ 350,000	\$ 550,000	\$ 550,000
Total Project Expenditures	\$ 1,107,065	\$ 1,565,000	\$ 625,000	\$ 590,000	\$ 590,000	\$ 590,000
Remaining Cash Balance	<u>\$ 181,441</u>	<u>\$ 131,441</u>	<u>\$ 131,441</u>	<u>\$ 131,441</u>	<u>\$ 131,441</u>	<u>\$ 131,441</u>

<u>Annual Water Main Extension/Replacement Program</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>
Beginning Cash Balance	\$ 895,886	\$ 646,861	\$ 248,703	\$ 148,703	\$ 173,703	\$ 173,703
<u>Transfers In</u>						
Water Fund	\$ 500,000	\$ 500,000	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000
Special Assessments Fund - Close Project Fund		\$ 51,842				
Total Transfers In	\$ 500,000	\$ 551,842	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000
<u>Project Expenditures</u>						
Water Main Oversizing	\$ 93,339	\$ 150,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
SE Eastlawn Area Utility Improvements	\$ 387,596					
NW Northlawn Area Utility Improvements	\$ 137,925	\$ 650,000	\$ 500,000	\$ 450,000	\$ 450,000	
NW Irvinedale Drive Water Main	\$ 1,175					
SW Irvinedale Drive Feeder Main	\$ 5,000					
SE 8th Street - SE Sharon Drive to South Ankeny Boulevard Water Main Improvements		\$ 150,000				
Future Utility Improvements Projects (TBD)				\$ 25,000	\$ 50,000	\$ 550,000
Total Project Expenditures	\$ 625,034	\$ 950,000	\$ 600,000	\$ 575,000	\$ 600,000	\$ 650,000
<u>Transfers Out</u>						
Annual Street Replacement Fund - SE 8th Street - SE Oak Drive to SE Sharon Drive Water Main Improvements	\$ 123,990					
Total Transfers Out	\$ 123,990	\$ -	\$ -	\$ -	\$ -	\$ -
Remaining Cash Balance	<u>\$ 646,861</u>	<u>\$ 248,703</u>	<u>\$ 148,703</u>	<u>\$ 173,703</u>	<u>\$ 173,703</u>	<u>\$ 123,703</u>

		2021-2025 Capital Improvement Program												
		Overall Project Listing with 10-Year Horizon Projects												
2021 Map I.D.	2022 Map I.D.	Proposed Projects November 9, 2020		High Priority Projects										Project Cost
			Project No.	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
ANNUAL PROGRAMS														
A	1	Annual Park Development Program	PRK-00-002	\$495,000	\$380,000	\$380,000	\$380,000	\$380,000	\$550,000	\$550,000	\$550,000	\$550,000	\$550,000	\$4,765,000
		Annual Sidewalk/Trail Construction Program	SDW-00-001	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$3,750,000
B	2	Annual Sanitary Sewer Replacement Program	SNS-00-001	\$755,000	\$1,105,000	\$580,000	\$1,105,000	\$655,000	\$750,000	\$750,000	\$800,000	\$800,000	\$800,000	\$8,100,000
C		Annual Storm Water Replacement Program	STM-00-001	\$345,000	\$250,000	\$250,000	\$250,000	\$250,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$3,095,000
B	2	Annual PCC Street Patching Program	STR-00-001	\$1,150,000	\$1,000,000	\$975,000	\$1,000,000	\$1,050,000	\$850,000	\$850,000	\$850,000	\$850,000	\$850,000	\$9,425,000
D	3	Annual Asphalt Street Resurfacing Program	STR-00-002	\$245,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,845,000
		Annual Pavement Preservation Program	STR-00-003	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$2,500,000
E	4	Annual Street Replacement Program	STR-00-004	\$1,025,000	\$825,000	\$1,150,000	\$1,200,000	\$1,250,000	\$850,000	\$850,000	\$850,000	\$850,000	\$850,000	\$9,700,000
F	5	Annual Traffic Signal Improvement Program	TRF-00-001	\$1,565,000	\$625,000	\$590,000	\$590,000	\$590,000	\$500,000	\$600,000	\$600,000	\$600,000	\$600,000	\$6,860,000
B	2	Annual Water Main Replacement Program	WTM-00-001	\$950,000	\$600,000	\$575,000	\$600,000	\$650,000	\$700,000	\$750,000	\$750,000	\$750,000	\$750,000	\$7,075,000
BUILDINGS														
G		Senior Community Center	BLD-18-003	\$3,060,000										\$3,060,000
H		Park Maintenance Facility Renovations	BLD-18-001	\$715,000										\$715,000
I		HVAC Replacement - City Hall	BLD-18-004	\$560,000										\$560,000
J		Fire Station No. 4	BLD-20-002	\$150,000			\$500,000	\$4,900,000						\$5,550,000
		Lakeside Center Repurposing	BLD-21-001		\$7,500	\$180,000								\$187,500
		Public Works Winter Operations Satellite Facility	BLD-21-002		\$40,000	\$350,000								\$390,000
		Community Entrance Signs	BLD-18-002			\$50,000	\$85,000	\$85,000	\$85,000					\$305,000
		Sewer Treatment Plant Demolition and Repurposing	BLD-21-003						\$165,000	\$1,650,000				\$1,815,000
BRIDGES														
K		NE Four Mile Drive RCB Culvert - Deer Creek	BRG-17-001	\$1,041,000										\$1,041,000
		SE Frisk Drive RCB Culvert	BRG-20-001				\$310,000							\$310,000
		NE 18th Street Improvements and I-35 Overpass Bridge	Bridge						\$1,000,000	\$5,500,000	\$4,000,000			\$10,500,000
		I-35 and NE 54th Street Overpass Justification Report	Bridge							\$150,000				\$150,000
		Corporate Woods Drive Railroad Overpass	Bridge								\$750,000	\$7,500,000		\$8,250,000
		I-35 and SE Oralabor Road Interchange Upgrade Justification Report	Bridge									\$200,000		\$200,000
PARKS														
L		Ankeny Kirkendall Public Library Playground	PRK-20-007	\$225,000										\$225,000
M		High Trestle Trail Trailhead and Parking Lot	PRK-18-001	\$356,000										\$356,000
M		High Trestle Trail Trailhead Restroom and Amenities	PRK-21-001	\$250,000										\$250,000
N		Parks Renovation Plan	PRK-17-003	\$265,000										\$265,000
	6	Signature Park	PRK_20-006	\$10,000	\$2,000,000									\$2,010,000
	7	Des Moines Street Parks Development	PRK-21-002	\$55,000	\$475,000	\$80,000	\$725,000	\$75,000						\$1,410,000
		Hawkeye Park Sports Complex - Tennis Courts Reconstruction	PRK-18-003				\$700,000							\$700,000
		Hawkeye Park Sports Complex - Pickleball Courts	PRK-20-004						\$300,000					\$300,000
		Heritage Park Expansion and Upgrades	PRK-21-003						\$50,000	\$650,000				\$700,000
		Cherry Glen Ball Diamonds and Parking Lot	Parks						\$40,000	\$400,000				\$440,000
		Chautauqua Park 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

		2021-2025 Capital Improvement Program Overall Project Listing with 10-Year Horizon Projects												
2021 Map I.D.	2022 Map I.D.	Proposed Projects November 9, 2020		2021	2022	2023	2024	2025	High Priority Projects					Project Cost
			Project No.						2026	2027	2028	2029	2030	
	17	Uptown Parking Improvements	STR-21-006		\$300,000									\$300,000
		North Ankeny Boulevard Median and Landscaping Improvements	STR-18-001		\$60,000	\$1,055,000	\$330,000							\$1,445,000
		SW State Street Reconstruction - SW Ordnance Road to West 1st Street (SB Lanes)	STR-21-001		\$75,000	\$1,375,000								\$1,450,000
		SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006			\$175,000								\$175,000
		Interstate 35 and SE Corporate Woods Drive Interchange Justification Report	TRF-21-001			\$100,000								\$100,000
		South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005			\$10,000	\$175,000	\$235,000	\$2,250,000					\$2,670,000
		NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003			\$75,000	\$475,000	\$2,450,000	\$2,500,000					\$5,500,000
		NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004			\$50,000	\$325,000	\$2,900,000						\$3,275,000
		SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003				\$75,000	\$325,000	\$3,000,000					\$3,400,000
		NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004				\$100,000	\$1,025,000						\$1,125,000
		NW 18th Street Extension - NW Spruce Drive to Iowa Highway 415	STR-18-004					\$50,000	\$925,000	\$6,475,000				\$7,450,000
		NE 36th Street Reconstruction - I-35 to NE Four Mile Drive (Design)	Streets						\$550,000					\$550,000
		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
		West 1st Street Widening and Improvements - Phase 2 (NW State Street to NW Greenwood Street)	Streets								\$400,000	\$2,000,000	\$3,000,000	\$5,400,000
		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
WATER														
Z		NW Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$1,888,000										\$1,888,000
AA		NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	\$1,500,000										\$1,500,000
	18	High Trestle Trail Transmission Main - Phase 1	WTM-17-001	\$125,000	\$1,150,000									\$1,275,000
	19	Aquifer Storage and Recovery Well No. 1 Replacement	WTT-17-002	\$300,000	\$4,150,000									\$4,450,000
		High Trestle Trail Transmission Main - Phase 2	WTM-21-001		\$200,000	\$2,000,000								\$2,200,000
		South Ankeny Boulevard Transmission Main	WTM-18-001		\$210,000	\$2,165,000								\$2,375,000
		Northwest Water Tower	WTT-19-002		\$300,000	\$6,300,000								\$6,600,000
		SE Delaware Ground Storage Tank Repaint	WTT-20-001			\$300,000								\$300,000
		South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001			\$100,000	\$1,310,000							\$1,410,000
		NW State Street Water Main Improvements	WTM-19-003				\$100,000	\$1,050,000						\$1,150,000
		SE Magazine Ground Storage Tank Repaint	WTT-20-002				\$400,000							\$400,000
		Saylorville Feeder Main Purchase Capacity	WTM-17-008				\$701,000							\$701,000
		SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002					\$117,000	\$1,408,000					\$1,525,000
		NW State Street Distribution Main - NW 18th Street to NW 22nd Street	Water						\$50,000	\$350,000				\$400,000
		Irvinedale Water Tower - Inspection and Repairs	Water							\$300,000				\$300,000
		NW State Street Distribution Main - West 1st Street to NW 9th Street	Water							\$80,000	\$770,000			\$850,000
		South Ankeny Boulevard Transmission Main - High Trestle Trail to SE 3rd Street	Water								\$140,000	\$1,310,000		\$1,450,000
		NE 36th Street and County NE 38th Street Water Main Looping	Water									\$250,000	\$2,000,000	\$2,250,000
			Year Totals	\$38,892,667	\$30,930,500	\$32,260,000	\$22,861,000	\$22,682,000	\$22,383,000	\$28,195,000	\$24,360,000	\$34,260,000	\$26,100,000	\$282,924,167

Section 2

City of Ankeny, Iowa
Financial Planning for Capital Projects
Projection of Tax Levies & Tax Rate Impact

FY22 Pre-Levy => 4,301,796

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:	

Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/ TIF Abatement	Misc Income	Property Tax Backfill	Total Resources	Par								Bond Fees	Other Uses	Total Uses	Surplus/ (Deficit)	Ending Fund Balance
									Proceeds Existing GO Debt	2021 CIP-Taxes	2022 CIP-Taxes	2023 CIP-Taxes	2024 CIP-Taxes	2025 CIP-Taxes	Estimated Future GO Bonds						
2015 - 2016	2,611,859,821	7.0%	11,100,404	\$4.2500	8,646,720	11,509	370,494	20,129,128	20,807,512								6,750	(6,982)	20,807,280	(678,153)	2,928,614
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	8,618,953	74,261	343,629	22,484,701	22,708,602								7,700	121,855	22,838,157	(353,457)	1,506,634
2020 - 2021	4,177,177,183	8.7%	13,575,825	\$3.2500	9,326,128	31,000	335,719	23,268,672	23,334,941								7,300		23,342,241	(73,569)	1,433,065
2021 - 2022	4,453,019,895	6.6%	14,249,664	\$3.2000	8,752,068	31,000	318,933	23,351,665	19,062,094	4,301,196							7,400		23,370,689	(19,024)	1,414,041
2022 - 2023	4,520,227,314	1.5%	14,464,727	\$3.2000	8,724,316	31,000	302,986	23,523,030	17,959,594	2,305,350	3,242,774						7,400		23,515,118	7,912	1,421,953
2023 - 2024	4,694,880,679	3.9%	15,023,618	\$3.2000	8,610,454	31,000	287,837	23,952,909	17,685,044	567,025	1,987,931	3,707,702					7,400		23,955,102	(2,193)	1,419,760
2024 - 2025	4,677,992,117	(0.4%)	14,969,575	\$3.2000	7,242,593	31,000	273,445	22,516,612	16,046,594	571,975	717,331	1,815,525	3,345,589				7,400		22,504,414	12,198	1,431,958
2025 - 2026	4,873,645,190	4.2%	15,595,665	\$3.2000	6,810,561	31,000	259,773	22,696,999	15,389,800	571,225	720,506	804,750	3,970,138	1,277,982			7,400		22,741,801	(44,802)	1,387,156
2026 - 2027	4,892,200,293	0.4%	15,655,041	\$3.2000	6,322,736	31,000	246,784	22,255,562	14,396,863	569,950	787,556	808,625	1,957,238	2,373,950	1,368,015		7,400		22,269,596	(14,035)	1,373,122

Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

Outstanding Debt

Issue Date	Maturity Date	Outstanding Debt
05/15/10	06/01/21	\$ 655,000
05/30/13	06/01/28	11,205,000
05/30/13	06/01/28	7,880,000
05/29/14	06/01/29	9,870,000
05/29/14	06/01/29	8,405,000
12/22/14	06/01/28	14,040,000
05/28/15	06/01/25	3,690,000
05/28/15	06/01/24	250,000
03/31/16	06/01/28	6,255,000
05/25/16	06/01/26	5,260,000
05/31/17	06/01/27	6,740,000
05/30/18	06/01/28	12,085,000
05/28/19	06/01/29	17,435,000
06/09/20	06/01/30	17,520,000
Rebate & Lease Agreements		7,452,967
Total Outstanding Debt		\$ 128,742,967

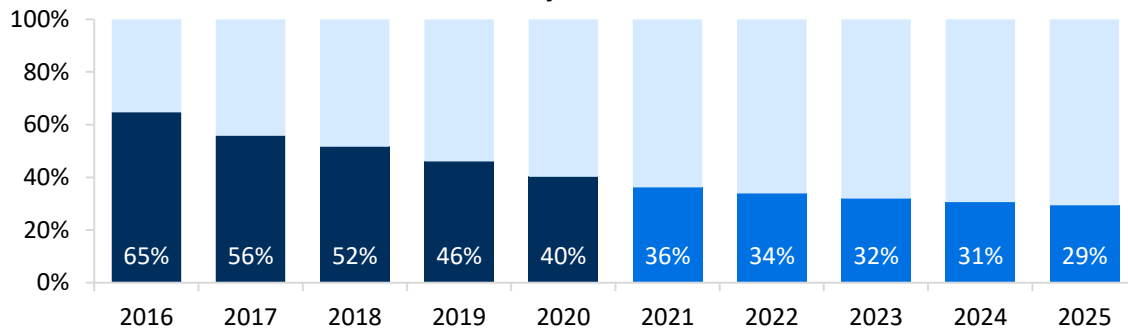
Projected Debt

Bond Year	Debt Addition	Debt Reduction	Change in Rebates	Net Change	Projected Outstanding Debt
2021	\$ 12,155,000	\$ 18,560,000	\$ -	\$ (6,405,000)	\$ 122,337,967
2022	13,505,000	15,050,000	(733,262)	(2,278,262)	120,059,705
2023	12,615,000	14,620,000	(526,882)	(2,531,882)	117,527,823
2024	13,600,000	14,950,000	(626,242)	(1,976,242)	115,551,581
2025	12,655,000	13,885,000	(750,611)	(1,980,611)	113,570,970

Calculation of Legal Debt Limit

FY	Assessed Value	Debt Limit Value (5%)	Projected Outstanding Debt	Unused Debt Limit	% of Debt Limit Used
2021	6,757,286,173	\$ 337,864,309	\$ 122,337,967	\$ 215,526,342	36%
2022	7,080,604,613	354,030,231	120,059,705	233,970,526	34%
2023	7,363,210,900	368,160,545	117,527,823	250,632,722	32%
2024	7,543,266,628	377,163,331	115,551,581	261,611,750	31%
2025	7,728,589,497	386,429,475	113,570,970	272,858,505	29%

Historical and Projected Use of Debt Limit



Section 3

City of Ankeny, Iowa
2021 - 2025 Capital Improvement Program
2021 thru 2025

CATEGORY SUMMARY

Category	2021	2022	2023	2024	2025	Total
Bridge/Box Culvert	1,041,000			310,000		1,351,000
Municipal Buildings	4,485,000	47,500	580,000	585,000	4,985,000	10,682,500
Park Facilities	1,656,000	2,855,000	460,000	1,805,000	455,000	7,231,000
Sanitary Sewers	3,476,000	4,788,000	775,000	2,310,000	2,480,000	13,829,000
Sidewalks/Trails	3,135,000	555,000	2,000,000	350,000	350,000	6,390,000
Storm Water	790,000	2,495,000	3,290,000	4,395,000	2,195,000	13,165,000
Streets and Alleys	17,981,667	12,955,000	13,025,000	9,405,000	9,810,000	63,176,667
Traffic Control	1,565,000	625,000	690,000	590,000	590,000	4,060,000
Water Mains	4,463,000	2,160,000	4,840,000	2,711,000	1,817,000	15,991,000
Water Towers/Storage	300,000	4,450,000	6,600,000	400,000		11,750,000
TOTAL	38,892,667	30,930,500	32,260,000	22,861,000	22,682,000	147,626,167

City of Ankeny, Iowa
2021 - 2025 Capital Improvement Program
2021 thru 2025

PROJECTS BY CATEGORY

Category	Project #	2021	2022	2023	2024	2025	Total
Bridge/Box Culvert							
NE Four Mile Drive RCB Culvert-Deer Creek	BRG-17-001	1,041,000					1,041,000
SE Frisk Drive RCB Culvert	BRG-20-001				310,000		310,000
Bridge/Box Culvert Total		1,041,000			310,000		1,351,000
Municipal Buildings							
Park Maintenance Facility Renovations	BLD-18-001	715,000					715,000
Community Entrance Signs	BLD-18-002			50,000	85,000	85,000	220,000
Senior Community Center	BLD-18-003	3,060,000					3,060,000
HVAC Replacement-City Hall	BLD-18-004	560,000					560,000
Fire Station No. 4	BLD-20-002	150,000			500,000	4,900,000	5,550,000
Lakeside Center Repurposing	BLD-21-001		7,500	180,000			187,500
Public Works Winter Operations Satellite Facility	BLD-21-002		40,000	350,000			390,000
Municipal Buildings Total		4,485,000	47,500	580,000	585,000	4,985,000	10,682,500
Park Facilities							
Annual Park Development Program	PRK-00-002	495,000	380,000	380,000	380,000	380,000	2,015,000
Parks Renovation Plan	PRK-17-003	265,000					265,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	356,000					356,000
Hawkeye Park-Tennis Courts Reconstruction	PRK-18-003				700,000		700,000
Signature Park	PRK-20-006	10,000	2,000,000				2,010,000
Ankeny Kirkendall Public Library Playground	PRK-20-007	225,000					225,000
High Trestle Trail Restroom & Amenities	PRK-21-001	250,000					250,000
Des Moines Street Parks Development	PRK-21-002	55,000	475,000	80,000	725,000	75,000	1,410,000
Park Facilities Total		1,656,000	2,855,000	460,000	1,805,000	455,000	7,231,000
Sanitary Sewers							
Annual Sanitary Sewer Replacement Program	SNS-00-001	755,000	1,105,000	580,000	1,105,000	655,000	4,200,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001	361,000	1,989,000				2,350,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001			195,000	1,030,000		1,225,000
Four Mile Creek Trunk Sewer	SNS-20-001				175,000	1,825,000	2,000,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	165,000	1,694,000				1,859,000
West Outfall Basin Sanitary Sewer Improvements	SNS-20-003	1,265,000					1,265,000
Canyon Landing Sanitary Sewer Cost Share	SNS-21-001	930,000					930,000
Sanitary Sewers Total		3,476,000	4,788,000	775,000	2,310,000	2,480,000	13,829,000
Sidewalks/Trails							
Annual Sidewalk/Trail Construction Program	SDW-00-001	350,000	350,000	350,000	350,000	350,000	1,750,000
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	2,750,000					2,750,000
Oralabor Gateway Trail-State St Separated Crossing	SDW-19-001	35,000	205,000	1,650,000			1,890,000
Sidewalks/Trails Total		3,135,000	555,000	2,000,000	350,000	350,000	6,390,000

Category	Project #	2021	2022	2023	2024	2025	Total
Storm Water							
Annual Storm Water Replacement Program	STM-00-001	345,000	250,000	250,000	250,000	250,000	1,345,000
Sawgrass Park Dam Improvements	STM-19-004				85,000	405,000	490,000
Four Mile Creek Channel Stabilization	STM-20-001			55,000	435,000		490,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002	155,000	1,190,000				1,345,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003	15,000	215,000	1,735,000			1,965,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004		30,000	280,000	2,280,000		2,590,000
Westlawn Area Storm Sewer Improvements	STM-20-005				35,000	300,000	335,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	225,000	810,000	810,000			1,845,000
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	50,000					50,000
Storm Water Total		790,000	2,495,000	3,290,000	4,395,000	2,195,000	13,165,000

Streets and Alleys							
Annual PCC Street Patching Program	STR-00-001	1,150,000	1,000,000	975,000	1,000,000	1,050,000	5,175,000
Annual Asphalt Street Resurfacing Program	STR-00-002	245,000	150,000	150,000	150,000	150,000	845,000
Annual Pavement Preservation Program	STR-00-003	250,000	250,000	250,000	250,000	250,000	1,250,000
Annual Street Replacement Program	STR-00-004	1,025,000	825,000	1,150,000	1,200,000	1,250,000	5,450,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	666,667					666,667
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	250,000	775,000	4,025,000	5,325,000	125,000	10,500,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	5,900,000					5,900,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				75,000	325,000	400,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	3,675,000	3,315,000				6,990,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001		60,000	1,055,000	330,000		1,445,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			75,000	475,000	2,450,000	3,000,000
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	125,000	600,000				725,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004				100,000	1,025,000	1,125,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006			175,000			175,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007	470,000					470,000
SE Crosswinds Drive/SE 77th Street Impr-Phase 2	STR-19-008	2,580,000					2,580,000
NW 26th Street Widening	STR-20-002	250,000					250,000
NW 36th St and NW State St Interim Improvements	STR-20-003	50,000	465,000				515,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004	50,000	150,000	1,725,000			1,925,000
NW 36th Street Widening-Ash to Ankeny Blvd	STR-20-005	375,000	3,950,000				4,325,000
SE Delaware Avenue Widening	STR-20-006	100,000	900,000				1,000,000
SE Delaware Ave and SE Corp Woods Dr Intersection	STR-20-007	550,000					550,000
SW Oralabor Rd and NW State St Safety Improvements	STR-20-008	120,000	140,000	2,010,000			2,270,000
SW State Street Reconstruction-Ordinance to 1st St	STR-21-001		75,000	1,375,000			1,450,000
NE 18th Street Overlay-Meadow View to 38th St	STR-21-002	150,000					150,000
NW Irvinedale Dr and NW 18th St Intersection	STR-21-004			50,000	325,000	2,900,000	3,275,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005			10,000	175,000	235,000	420,000
Uptown Parking Improvements	STR-21-006		300,000				300,000
Streets and Alleys Total		17,981,667	12,955,000	13,025,000	9,405,000	9,810,000	63,176,667

Traffic Control							
Annual Traffic Signal Improvement Program	TRF-00-001	1,565,000	625,000	590,000	590,000	590,000	3,960,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001			100,000			100,000
Traffic Control Total		1,565,000	625,000	690,000	590,000	590,000	4,060,000

Water Mains							
Annual Water Main Replacement Program	WTM-00-001	950,000	600,000	575,000	600,000	650,000	3,375,000
High Trestle Trail Transmission Main-Phase 1	WTM-17-001	125,000	1,150,000				1,275,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007	1,888,000					1,888,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008				701,000		701,000

Category	Project #	2021	2022	2023	2024	2025	Total
South Ankeny Boulevard Transmission Main	WTM-18-001		210,000	2,165,000			2,375,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001			100,000	1,310,000		1,410,000
NW State Street Water Main Improvements	WTM-19-003				100,000	1,050,000	1,150,000
NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,500,000					1,500,000
SW Walnut Street and SW Ordinance Road Water Main	WTM-20-002					117,000	117,000
High Trestle Trail Transmission Main-Phase 2	WTM-21-001		200,000	2,000,000			2,200,000
Water Mains Total		4,463,000	2,160,000	4,840,000	2,711,000	1,817,000	15,991,000
Water Towers/Storage							
Aquifer Storage and Recovery Well #1 Replacement	WTT-17-002	300,000	4,150,000				4,450,000
Northwest Water Tower	WTT-19-002		300,000	6,300,000			6,600,000
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		300,000	4,450,000	6,600,000	400,000		11,750,000
GRAND TOTAL		38,892,667	30,930,500	32,260,000	22,861,000	22,682,000	147,626,167

City of Ankeny, Iowa
2021 - 2025 Capital Improvement Program
2021 thru 2025

PROJECTS BY YEAR

Project Name	Department	Project #	Project Cost
2021			
Senior Community Center	Administration	BLD-18-003	3,060,000
HVAC Replacement-City Hall	Administration	BLD-18-004	560,000
Fire Station No. 4	Administration	BLD-20-002	150,000
Park Maintenance Facility Renovations	Parks and Recreation	BLD-18-001	715,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	495,000
Parks Renovation Plan	Parks and Recreation	PRK-17-003	265,000
High Trestle Trail Trailhead and Parking Lot	Parks and Recreation	PRK-18-001	356,000
Signature Park	Parks and Recreation	PRK-20-006	10,000
Ankeny Kirkendall Public Library Playground	Parks and Recreation	PRK-20-007	225,000
High Trestle Trail Restroom & Amenities	Parks and Recreation	PRK-21-001	250,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	55,000
NE Four Mile Drive RCB Culvert-Deer Creek	Public Works	BRG-17-001	1,041,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
High Trestle Trail Extension-Magazine to Oralabor	Public Works	SDW-16-001	2,750,000
Oralabor Gateway Trail-State St Separated Crossing	Public Works	SDW-19-001	35,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,150,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	245,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,025,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	666,667
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	250,000
NW 18th Street Extension-Weigel to Spruce	Public Works	STR-16-002	5,900,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	3,675,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	125,000
S Ankeny Blvd and Magazine Rd Safety Improvements	Public Works	STR-19-007	470,000
SE Crosswinds Drive/SE 77th Street Impr-Phase 2	Public Works	STR-19-008	2,580,000
NW 26th Street Widening	Public Works	STR-20-002	250,000
NW 36th St and NW State St Interim Improvements	Public Works	STR-20-003	50,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	50,000
NW 36th Street Widening-Ash to Ankeny Blvd	Public Works	STR-20-005	375,000
SE Delaware Avenue Widening	Public Works	STR-20-006	100,000
SE Delaware Ave and SE Corp Woods Dr Intersection	Public Works	STR-20-007	550,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	120,000
NE 18th Street Overlay-Meadow View to 38th St	Public Works	STR-21-002	150,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,565,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	755,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	361,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	165,000
West Outfall Basin Sanitary Sewer Improvements	Sewer Utility	SNS-20-003	1,265,000
Canyon Landing Sanitary Sewer Cost Share	Sewer Utility	SNS-21-001	930,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	345,000
High Trestle Trail Channel Stabilization-Phase 1	Storm Water Utility	STM-20-002	155,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	15,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	225,000

Project Name	Department	Project #	Project Cost
Westwinds Storm Sewer Extension	Storm Water Utility	STM-21-002	50,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	950,000
High Trestle Trail Transmission Main-Phase 1	Water Utility	WTM-17-001	125,000
Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	1,888,000
NW 36th Street and NW Weigel Drive Water Main Loop	Water Utility	WTM-20-001	1,500,000
Aquifer Storage and Recovery Well #1 Replacement	Water Utility	WTT-17-002	300,000
Total for 2021			38,892,667

2022

Lakeside Center Repurposing	Administration	BLD-21-001	7,500
Public Works Winter Operations Satellite Facility	Administration	BLD-21-002	40,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	380,000
Signature Park	Parks and Recreation	PRK-20-006	2,000,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	475,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Oralabor Gateway Trail-State St Separated Crossing	Public Works	SDW-19-001	205,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,000,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	825,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	775,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	3,315,000
North Ankeny Boulevard Median and Landscaping Impr	Public Works	STR-18-001	60,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	600,000
NW 36th St and NW State St Interim Improvements	Public Works	STR-20-003	465,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	150,000
NW 36th Street Widening-Ash to Ankeny Blvd	Public Works	STR-20-005	3,950,000
SE Delaware Avenue Widening	Public Works	STR-20-006	900,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	140,000
SW State Street Reconstruction-Ordinance to 1st St	Public Works	STR-21-001	75,000
Uptown Parking Improvements	Public Works	STR-21-006	300,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	625,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,105,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	1,989,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	1,694,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
High Trestle Trail Channel Stabilization-Phase 1	Storm Water Utility	STM-20-002	1,190,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	215,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	30,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	810,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	600,000
High Trestle Trail Transmission Main-Phase 1	Water Utility	WTM-17-001	1,150,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	210,000
High Trestle Trail Transmission Main-Phase 2	Water Utility	WTM-21-001	200,000
Aquifer Storage and Recovery Well #1 Replacement	Water Utility	WTT-17-002	4,150,000
Northwest Water Tower	Water Utility	WTT-19-002	300,000
Total for 2022			30,930,500

2023

Community Entrance Signs	Administration	BLD-18-002	50,000
Lakeside Center Repurposing	Administration	BLD-21-001	180,000
Public Works Winter Operations Satellite Facility	Administration	BLD-21-002	350,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	380,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	80,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000

Project Name	Department	Project #	Project Cost
Oralabor Gateway Trail-State St Separated Crossing	Public Works	SDW-19-001	1,650,000
Annual PCC Street Patching Program	Public Works	STR-00-001	975,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,150,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	4,025,000
North Ankeny Boulevard Median and Landscaping Impr	Public Works	STR-18-001	1,055,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	75,000
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	1,725,000
SW Oralabor Rd and SW State St Safety Improvements	Public Works	STR-20-008	2,010,000
SW State Street Reconstruction-Ordance to 1st St	Public Works	STR-21-001	1,375,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	50,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	10,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	590,000
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	580,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	195,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-001	55,000
High Trestle Trail Channel Stabilization-Phase 2	Storm Water Utility	STM-20-003	1,735,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	280,000
SE 3rd Street Area Storm Sewer Improvements	Storm Water Utility	STM-20-006	810,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	160,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	575,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	2,165,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	100,000
High Trestle Trail Transmission Main-Phase 2	Water Utility	WTM-21-001	2,000,000
Northwest Water Tower	Water Utility	WTT-19-002	6,300,000
SE Delaware Ground Storage Tank Repaint	Water Utility	WTT-20-001	300,000
Total for 2023			32,260,000

2024

Community Entrance Signs	Administration	BLD-18-002	85,000
Fire Station No. 4	Administration	BLD-20-002	500,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	380,000
Hawkeye Park-Tennis Courts Reconstruction	Parks and Recreation	PRK-18-003	700,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	725,000
SE Frisk Drive RCB Culvert	Public Works	BRG-20-001	310,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,000,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,200,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	5,325,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	75,000
North Ankeny Boulevard Median and Landscaping Impr	Public Works	STR-18-001	330,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	475,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	100,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	325,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	175,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	590,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,105,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	1,030,000
Four Mile Creek Trunk Sewer	Sewer Utility	SNS-20-001	175,000

Project Name	Department	Project #	Project Cost
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	85,000
Four Mile Creek Channel Stabilization	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	600,000
Saylorville Feeder Main Purchase Capacity	Water Utility	WTM-17-008	701,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	1,310,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	100,000
SE Magazine Ground Storage Tank Repaint	Water Utility	WTT-20-002	400,000
Total for 2024			22,861,000

2025

Community Entrance Signs	Administration	BLD-18-002	85,000
Fire Station No. 4	Administration	BLD-20-002	4,900,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	380,000
Des Moines Street Parks Development	Parks and Recreation	PRK-21-002	75,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,050,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	250,000
Annual Street Replacement Program	Public Works	STR-00-004	1,250,000
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	325,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	2,450,000
NW 18th Street Extension-Spruce to Highway 415	Public Works	STR-18-004	50,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	1,025,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	2,900,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	235,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	590,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	655,000
Four Mile Creek Trunk Sewer	Sewer Utility	SNS-20-001	1,825,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
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
Annual Water Main Replacement Program	Water Utility	WTM-00-001	650,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	1,050,000
SW Walnut Street and SW Ordance Road Water Main	Water Utility	WTM-20-002	117,000
Total for 2025			22,682,000

GRAND TOTAL

147,626,167

City of Ankeny, Iowa
2021 - 2025 Capital Improvement Program
2021 thru 2025

FUNDING SOURCE SUMMARY

Source	2021	2022	2023	2024	2025	Total
Capital Project Fund	4,320,158	3,620,000	2,225,000	505,000	105,000	10,775,158
Capital Reserve Fund	3,060,000	167,500	180,000	500,000	4,900,000	8,807,500
Civic Trust Fund	1,055,000	475,000	80,000	725,000	75,000	2,410,000
FHWA/IDOT Grants	2,977,000	250,000	1,225,000			4,452,000
G.O. Bonds	9,846,667	9,370,000	9,802,500	9,665,000	10,925,000	49,609,167
G.O. Bonds - Storm Water Abated		1,845,000	2,640,000	3,745,000	1,545,000	9,775,000
G.O. Bonds - TIF Abated	2,160,000	2,100,000				4,260,000
General Fund	340,000					340,000
Hotel/Motel Tax Fund	200,000	30,000	527,500	250,000	85,000	1,092,500
MPO/STBG Grants	1,965,000	1,265,000	2,100,000	1,700,000		7,030,000
Other Grants	50,000					50,000
Park Dedication Fund	80,000	80,000	80,000	80,000	80,000	400,000
Private Contributions	1,493,000					1,493,000
Road Use Tax Fund	1,800,000	285,000	535,000	125,000	125,000	2,870,000
Sewer Fund	3,217,000	4,283,000	775,000	1,805,000	2,425,000	12,505,000
Special Assessments	1,320,842					1,320,842
Storm Water Fund	695,000	650,000	650,000	650,000	650,000	3,295,000
Water Fund	500,000	500,000	575,000	600,000	600,000	2,775,000
Water Revenue Bonds	3,813,000	6,010,000	10,865,000	2,511,000	1,167,000	24,366,000
GRAND TOTAL	38,892,667	30,930,500	32,260,000	22,861,000	22,682,000	147,626,167

City of Ankeny, Iowa
2021 - 2025 Capital Improvement Program
 2021 thru 2025

PROJECTS BY FUNDING SOURCE

Source	Project #	2021	2022	2023	2024	2025	Total
Capital Project Fund							
Fire Station No. 4	BLD-20-002	150,000					150,000
NE Four Mile Drive RCB Culvert-Deer Creek	BRG-17-001	975,000					975,000
Annual Park Development Program	PRK-00-002	118,000					118,000
Parks Renovation Plan	PRK-17-003	50,000					50,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	325,000					325,000
Signature Park	PRK-20-006	10,000	1,840,000				1,850,000
Annual Sanitary Sewer Replacement Program	SNS-00-001		505,000		505,000	55,000	1,065,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	104,000					104,000
Annual Storm Water Replacement Program	STM-00-001	95,000					95,000
Annual Asphalt Street Resurfacing Program	STR-00-002	45,000					45,000
Annual Street Replacement Program	STR-00-004		400,000				400,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006		775,000	2,225,000			3,000,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	2,000,000					2,000,000
Annual Traffic Signal Improvement Program	TRF-00-001	50,000					50,000
Annual Water Main Replacement Program	WTM-00-001	398,158	100,000			50,000	548,158
Capital Project Fund Total		4,320,158	3,620,000	2,225,000	505,000	105,000	10,775,158
Capital Reserve Fund							
Park Maintenance Facility Renovations	BLD-18-001	715,000					715,000
Senior Community Center	BLD-18-003	1,560,000					1,560,000
HVAC Replacement-City Hall	BLD-18-004	560,000					560,000
Fire Station No. 4	BLD-20-002				500,000	4,900,000	5,400,000
Lakeside Center Repurposing	BLD-21-001		7,500	180,000			187,500
Signature Park	PRK-20-006		160,000				160,000
Ankeny Kirkendall Public Library Playground	PRK-20-007	225,000					225,000
Capital Reserve Fund Total		3,060,000	167,500	180,000	500,000	4,900,000	8,807,500
Civic Trust Fund							
Senior Community Center	BLD-18-003	1,000,000					1,000,000
Des Moines Street Parks Development	PRK-21-002	55,000	475,000	80,000	725,000	75,000	1,410,000
Civic Trust Fund Total		1,055,000	475,000	80,000	725,000	75,000	2,410,000
FHWA/IDOT Grants							
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	500,000					500,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	250,000	250,000				500,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001			100,000			100,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006			75,000			75,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007	340,000					340,000
SE Crosswinds Drive/SE 77th Street Impr-Phase 2	STR-19-008	1,887,000					1,887,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008			1,000,000			1,000,000

Source	Project #	2021	2022	2023	2024	2025	Total
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001			50,000			50,000
FHWA/IDOT Grants Total		2,977,000	250,000	1,225,000			4,452,000

G.O. Bonds

NE Four Mile Drive RCB Culvert-Deer Creek	BRG-17-001	66,000					66,000
SE Frisk Drive RCB Culvert	BRG-20-001				310,000		310,000
Annual Park Development Program	PRK-00-002	297,000	300,000	300,000	300,000	300,000	1,497,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	31,000					31,000
Hawkeye Park-Tennis Courts Reconstruction	PRK-18-003				700,000		700,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	225,000	225,000	225,000	225,000	225,000	1,125,000
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	1,550,000					1,550,000
Oralabor Gateway Trail-State St Separated Crossing	SDW-19-001	35,000	205,000	550,000			790,000
Annual PCC Street Patching Program	STR-00-001	1,150,000	1,000,000	975,000	1,000,000	1,050,000	5,175,000
Annual Asphalt Street Resurfacing Program	STR-00-002	200,000	150,000	150,000	150,000	150,000	800,000
Annual Pavement Preservation Program	STR-00-003	250,000	250,000	250,000	250,000	250,000	1,250,000
Annual Street Replacement Program	STR-00-004		305,000	1,150,000	1,200,000	1,250,000	3,905,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	666,667					666,667
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	250,000		800,000	3,625,000	125,000	4,800,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	2,486,000					2,486,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				75,000	325,000	400,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001		30,000	477,500	165,000		672,500
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003			75,000	475,000	2,450,000	3,000,000
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		600,000				600,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004				100,000	1,025,000	1,125,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006			100,000			100,000
S Ankeny Blvd and Magazine Rd Safety Improvements	STR-19-007	130,000					130,000
NW 26th Street Widening	STR-20-002	250,000					250,000
NW 36th St and NW State St Interim Improvements	STR-20-003	50,000	465,000				515,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004	50,000	150,000	1,725,000			1,925,000
NW 36th Street Widening-Ash to Ankeny Blvd	STR-20-005	375,000	3,950,000				4,325,000
SE Delaware Avenue Widening	STR-20-006	100,000	900,000				1,000,000
SE Delaware Ave and SE Corp Woods Dr Intersection	STR-20-007	550,000					550,000
SW Oralabor Rd and SW State St Safety Improvements	STR-20-008	120,000	140,000	1,010,000			1,270,000
SW State Street Reconstruction-Ordance to 1st St	STR-21-001		75,000	1,375,000			1,450,000
NW Irvinedale Dr and NW 18th St Intersection	STR-21-004			50,000	325,000	2,900,000	3,275,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005				175,000	235,000	410,000
Annual Traffic Signal Improvement Program	TRF-00-001	1,015,000	625,000	590,000	590,000	590,000	3,410,000
G.O. Bonds Total		9,846,667	9,370,000	9,802,500	9,665,000	10,925,000	49,609,167

G.O. Bonds - Storm Water Abated

Sawgrass Park Dam Improvements	STM-19-004				85,000	405,000	490,000
Four Mile Creek Channel Stabilization	STM-20-001			55,000	435,000		490,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002		1,190,000				1,190,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003		215,000	1,735,000			1,950,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004		30,000	280,000	2,280,000		2,590,000
Westlawn Area Storm Sewer Improvements	STM-20-005				35,000	300,000	335,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006		410,000	410,000			820,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001			160,000	910,000	840,000	1,910,000
G.O. Bonds - Storm Water Abated Total			1,845,000	2,640,000	3,745,000	1,545,000	9,775,000

Source	Project #	2021	2022	2023	2024	2025	Total
G.O. Bonds - TIF Abated							
West 1st Street Widening and Improvements-Phase 1	STR-16-004	2,160,000	1,800,000				3,960,000
Uptown Parking Improvements	STR-21-006		300,000				300,000
G.O. Bonds - TIF Abated Total		2,160,000	2,100,000				4,260,000
General Fund							
Parks Renovation Plan	PRK-17-003	215,000					215,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005	125,000					125,000
General Fund Total		340,000					340,000
Hotel/Motel Tax Fund							
Community Entrance Signs	BLD-18-002			50,000	85,000	85,000	220,000
High Trestle Trail Restroom & Amenities	PRK-21-001	200,000					200,000
North Ankeny Boulevard Median and Landscaping Impr	STR-18-001		30,000	477,500	165,000		672,500
Hotel/Motel Tax Fund Total		200,000	30,000	527,500	250,000	85,000	1,092,500
MPO/STBG Grants							
High Trestle Trail Extension-Magazine to Oralabor	SDW-16-001	700,000					700,000
Oralabor Gateway Trail-State St Separated Crossing	SDW-19-001			1,100,000			1,100,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006			1,000,000	1,700,000		2,700,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	1,265,000	1,265,000				2,530,000
MPO/STBG Grants Total		1,965,000	1,265,000	2,100,000	1,700,000		7,030,000
Other Grants							
High Trestle Trail Restroom & Amenities	PRK-21-001	50,000					50,000
Other Grants Total		50,000					50,000
Park Dedication Fund							
Annual Park Development Program	PRK-00-002	80,000	80,000	80,000	80,000	80,000	400,000
Park Dedication Fund Total		80,000	80,000	80,000	80,000	80,000	400,000
Private Contributions							
Senior Community Center	BLD-18-003	500,000					500,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	300,000					300,000
SE Crosswinds Drive/SE 77th Street Impr-Phase 2	STR-19-008	693,000					693,000
Private Contributions Total		1,493,000					1,493,000
Road Use Tax Fund							
Public Works Winter Operations Satellite Facility	BLD-21-002		40,000	350,000			390,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	125,000	125,000	125,000	125,000	125,000	625,000
Annual Street Replacement Program	STR-00-004	1,025,000	120,000				1,145,000
NE 18th Street Overlay-Meadow View to 38th St	STR-21-002	150,000					150,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005			10,000			10,000
Annual Traffic Signal Improvement Program	TRF-00-001	500,000					500,000

Source	Project #	2021	2022	2023	2024	2025	Total
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001			50,000			50,000
Road Use Tax Fund Total		1,800,000	285,000	535,000	125,000	125,000	2,870,000
Sewer Fund							
Annual Sanitary Sewer Replacement Program	SNS-00-001	600,000	600,000	580,000	600,000	600,000	2,980,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001	361,000	1,989,000				2,350,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001			195,000	1,030,000		1,225,000
Four Mile Creek Trunk Sewer	SNS-20-001				175,000	1,825,000	2,000,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	61,000	1,694,000				1,755,000
West Outfall Basin Sanitary Sewer Improvements	SNS-20-003	1,265,000					1,265,000
Canyon Landing Sanitary Sewer Cost Share	SNS-21-001	930,000					930,000
Sewer Fund Total		3,217,000	4,283,000	775,000	1,805,000	2,425,000	12,505,000
Special Assessments							
Annual Sanitary Sewer Replacement Program	SNS-00-001	155,000					155,000
NW 18th Street Extension-Weigel to Spruce	STR-16-002	1,114,000					1,114,000
Annual Water Main Replacement Program	WTM-00-001	51,842					51,842
Special Assessments Total		1,320,842					1,320,842
Storm Water Fund							
Annual Storm Water Replacement Program	STM-00-001	250,000	250,000	250,000	250,000	250,000	1,250,000
High Trestle Trail Channel Stabilization-Phase 1	STM-20-002	155,000					155,000
High Trestle Trail Channel Stabilization-Phase 2	STM-20-003	15,000					15,000
SE 3rd Street Area Storm Sewer Improvements	STM-20-006	225,000	400,000	400,000			1,025,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001				400,000	400,000	800,000
Westwinds Storm Sewer Extension	STM-21-002	50,000					50,000
Storm Water Fund Total		695,000	650,000	650,000	650,000	650,000	3,295,000
Water Fund							
Annual Water Main Replacement Program	WTM-00-001	500,000	500,000	575,000	600,000	600,000	2,775,000
Water Fund Total		500,000	500,000	575,000	600,000	600,000	2,775,000
Water Revenue Bonds							
High Trestle Trail Transmission Main-Phase 1	WTM-17-001	125,000	1,150,000				1,275,000
Irvinedale Drive Transmission Main-Phase 3	WTM-17-007	1,888,000					1,888,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008				701,000		701,000
South Ankeny Boulevard Transmission Main	WTM-18-001		210,000	2,165,000			2,375,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001			100,000	1,310,000		1,410,000
NW State Street Water Main Improvements	WTM-19-003				100,000	1,050,000	1,150,000
NW 36th Street and NW Weigel Drive Water Main Loop	WTM-20-001	1,500,000					1,500,000
SW Walnut Street and SW Ordinance Road Water Main	WTM-20-002					117,000	117,000
High Trestle Trail Transmission Main-Phase 2	WTM-21-001		200,000	2,000,000			2,200,000
Aquifer Storage and Recovery Well #1 Replacement	WTT-17-002	300,000	4,150,000				4,450,000
Northwest Water Tower	WTT-19-002		300,000	6,300,000			6,600,000
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

Source	Project #	2021	2022	2023	2024	2025	Total
Water Revenue Bonds Total		3,813,000	6,010,000	10,865,000	2,511,000	1,167,000	24,366,000
GRAND TOTAL		38,892,667	30,930,500	32,260,000	22,861,000	22,682,000	147,626,167

Section 4

City of Ankeny, Iowa

2021 *thru* 2025

Department Parks and Recreation

Contact Assistant City Manager

Type Improvement

Useful Life 20 years

Category Municipal Buildings

Project # **BLD-18-001**

Project Name Park Maintenance Facility Renovations

Description

Renovate and expand the current Park Maintenance Facility.

Justification

The current Park Maintenance Facility, located at 210 NW Ash Drive, serves the entire park system. These facilities have provided accommodation for the past fifty-five years. Based on the facility's centrally located position within the City, current site services and its proximity to community and regional trail connections, department staff is recommending expanding the current building to better accommodate Ankeny's growth and needed space requirements.

Phase I, which is currently under construction, includes an 80'x50' metal building addition, new sanitary and water services and storm water management. Phase II work includes renovating the office areas, break room, roof, restrooms, parking lot and building façade.

The City is currently in a Professional Services Agreement with ASK Studio for the project's overall design and construction administration services for Phase I.

Expenditures	2021	2022	2023	2024	2025	Total
Architect	15,000					15,000
Construction Costs	700,000					700,000
Total	715,000					715,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Reserve Fund	715,000					715,000
Total	715,000					715,000

Budget Impact/Other

Maintenance and operating costs for Phase I will be around \$8,600 annually with completion of the new addition. Phase II operating impacts will be insignificant as this phase is renovating the current facility, which will ultimately include some overall cost savings with improved energy efficiencies.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs	8,600	8,600	8,600	8,600	8,600	43,000
Total	8,600	8,600	8,600	8,600	8,600	43,000

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Parks and Recreation
Contact Assistant City Manager

Project #	BLD-18-001
Project Name	Park Maintenance Facility Renovations



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

Project # BLD-18-002
Project Name Community Entrance Signs

Description

The two large welcome signs along Interstate 35 were constructed in 2018. Landscaping around the two interstate signs was completed in 2019. Additional smaller signs are planned for future construction predicated on available funding and city council approval to proceed. Assuming 8 smaller signs are constructed at the secondary entry points into Ankeny such as state highways and county roadways:

- ☐ A feasibility study with final council approval of sign locations will need to be completed.
- ☐ Property acquisitions/permits will need to be obtained with Iowa DOT approvals.
- ☐ Four signs will be completed in each of two years after design, approvals and easement acquisitions.

Justification

The installation of welcome signs was identified by the city council as a priority during previous strategic planning sessions. As a first phase of meeting this objective, the two large scale I-35 signs were built. Additional smaller-scale signs are planned for future consideration pending council authorization. These smaller signs will be placed at the corporate limits on some of the state highways and county collector routes. These signs will be of a similar design as the interstate signs and will showcase our successful city.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design			20,000			20,000
Construction Costs				85,000	85,000	170,000
Land/ROW Acquisition			30,000			30,000
Total			50,000	85,000	85,000	220,000
Funding Sources	2021	2022	2023	2024	2025	Total
Hotel/Motel Tax Fund			50,000	85,000	85,000	220,000
Total			50,000	85,000	85,000	220,000

Budget Impact/Other

The two large interstate signs require electric service and a minor amount of landscaping maintenance each year. The other eight signs will require minor landscaping maintenance each year.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs				1,000	1,000	2,000
Utilities				300	300	600
Total				1,300	1,300	2,600

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-18-002

Project Name Community Entrance Signs



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

Project # BLD-18-003
Project Name Senior Community Center

Description

Construction of the Senior Community Center. The proposed building will include facilities for serving senior citizens of the community. Uses include congregate meals by Polk County, providing an indoor walking facility, other recreation facilities and meeting rooms. The project scope includes the construction of the building on the south side of NW Ash Drive next to Fire Station No. 1. The Park and Ride lot will be replaced and utilized for this building.

Justification

There is a need to serve the aging population of the City and surrounding areas of Polk County. Outside funding for this project is secured from a local developer and Polk County. There is no similar facility within Ankeny and the population of the citizenry continues to trend older.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	2,695,000					2,695,000
Furniture, Fixtures & Equipment	365,000					365,000
Total	3,060,000					3,060,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Reserve Fund	1,560,000					1,560,000
Civic Trust Fund	1,000,000					1,000,000
Private Contributions	500,000					500,000
Total	3,060,000					3,060,000

Budget Impact/Other

Operating impacts will be determined during design of the project. Anticipated operating costs include utilities, insurance, cleaning services, and maintenance/upkeep of the facility. Placeholder amounts are included at this time.

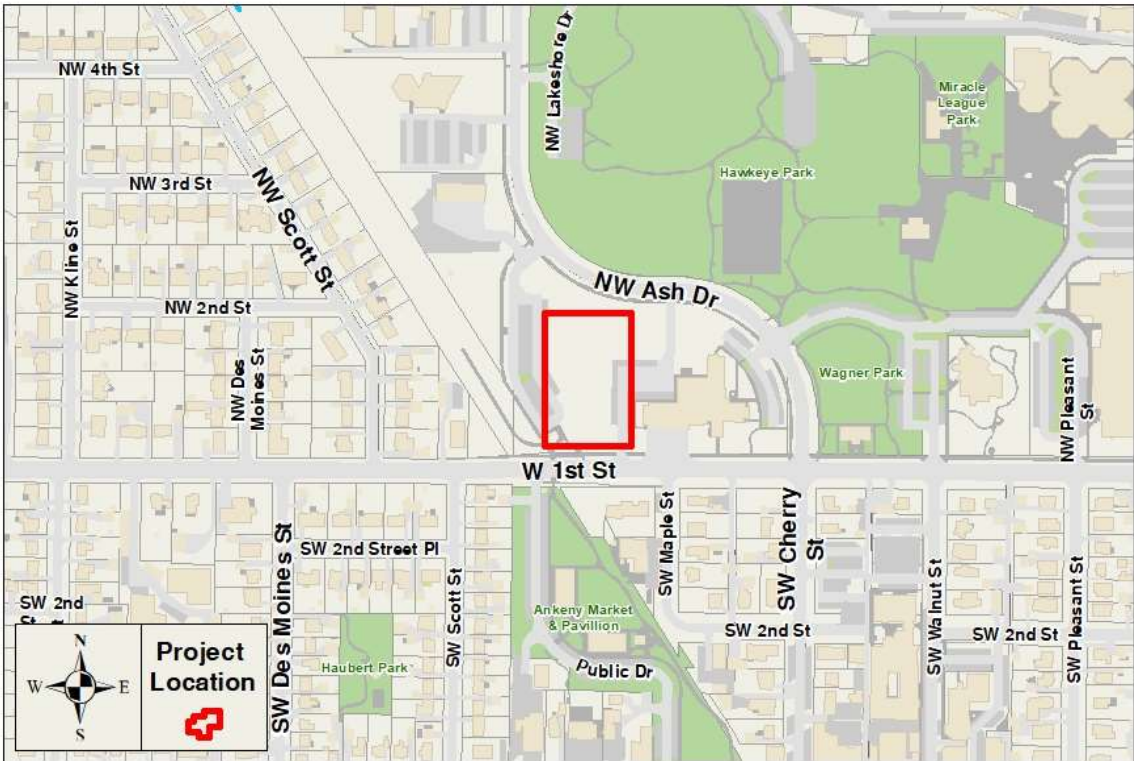
Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs		6,000	6,000	6,000	6,000	24,000
Utilities		12,000	12,000	12,000	12,000	48,000
Total		18,000	18,000	18,000	18,000	72,000

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Administration
Contact Assistant City Manager

Project #	BLD-18-003
Project Name	Senior Community Center



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

Project # BLD-18-004
Project Name HVAC Replacement-City Hall

Description

Replacement of the heating and cooling system within Ankeny City Hall as part of a refurbishing of the building. Other improvements to City Hall will include carpet replacement, painting of all interior walls, exterior grading to eliminate drainage problems along the north side of the building and other updates.

Justification

The Facilities Needs Study as completed by OPN Architects found that the 11,300 SF City Hall building is in generally fair to good condition, given its age. The building was constructed in 1975 and converted to City Hall in 1997. It was expanded in 2006. The current heat pump/cooling tower system is outdated and is prone to recurring maintenance expenses. It does not adequately heat and cool the building in extreme weather months. There have been many repairs needed in recent history to keep the HVAC system operating.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	470,000					470,000
Furniture, Fixtures & Equipment	90,000					90,000
Total	560,000					560,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Reserve Fund	560,000					560,000
Total	560,000					560,000

Budget Impact/Other

A new, efficient HVAC system can be expected to reduce the annual maintenance and utility costs when compared to the current outdated inefficient system. While there will be a net reduction in expenses to heat and cool City Hall, as well as a reduction in the recurring maintenance costs, the net costs are shown as zero to be conservative.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-18-004

Project Name HVAC Replacement-City Hall



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

Development of a fourth fire station within Ankeny. This station is targeted for the NW area of the City, but a definite location has not been determined at this time pending property acquisition. For the 2021 CIP, the property acquisition will be completed and the design/construction will be completed within the 5-year horizon. It is anticipated that the station design for Station 2 and Station 3 will be utilized for Station 4.

Justification

The City continues to experience strong residential growth, despite the current COVID-19 pandemic. A large percentage of the overall growth is occurring within the northwest quadrant of the City. As this growth continues, the travel times for emergency vehicles to answer calls on the northwest side will continue to increase, as that quadrant of the City is the only one that is not served by a fire station. Calls now need to come from Station 1 or Station 3.

Expenditures	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	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

Impacts will be determined when the station is designed. Conceptually there will be additional utilities and maintenance costs related to a new building.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager
Type Improvement
Useful Life 20 years
Category Municipal Buildings

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

Description

Provide improvements to the Lakeside Center that will facilitate the building being repurposed from a rental facility to a recreational facility. Anticipated improvements include:

- ☐ Enclosing the kitchen area and converting to storage.
- ☐ Updating the bathrooms.
- ☐ Providing specialized flooring for recreation activities.
- ☐ Installing a glass enclosure for separate recreation activities.
- ☐ Providing exercise equipment, tumbling pads, mats, etc.
- ☐ Painting of the interior walls.

Justification

With the new Senior Community Center opening in late 2021, there no longer is a need to use the Lakeside Center as a rental facility. So moving forward, the building could serve the public better as an indoor recreation facility, supporting programs that can be held in a space smaller than a gymnasium. Although dated, the basic structure of this building is in good condition. The parking lot is being overlaid in 2021.

Expenditures	2021	2022	2023	2024	2025	Total
Architect		7,500				7,500
Construction Costs			165,000			165,000
Furniture, Fixtures & Equipment			15,000			15,000
Total		7,500	180,000			187,500
Funding Sources	2021	2022	2023	2024	2025	Total
Capital Reserve Fund		7,500	180,000			187,500
Total		7,500	180,000			187,500

Budget Impact/Other

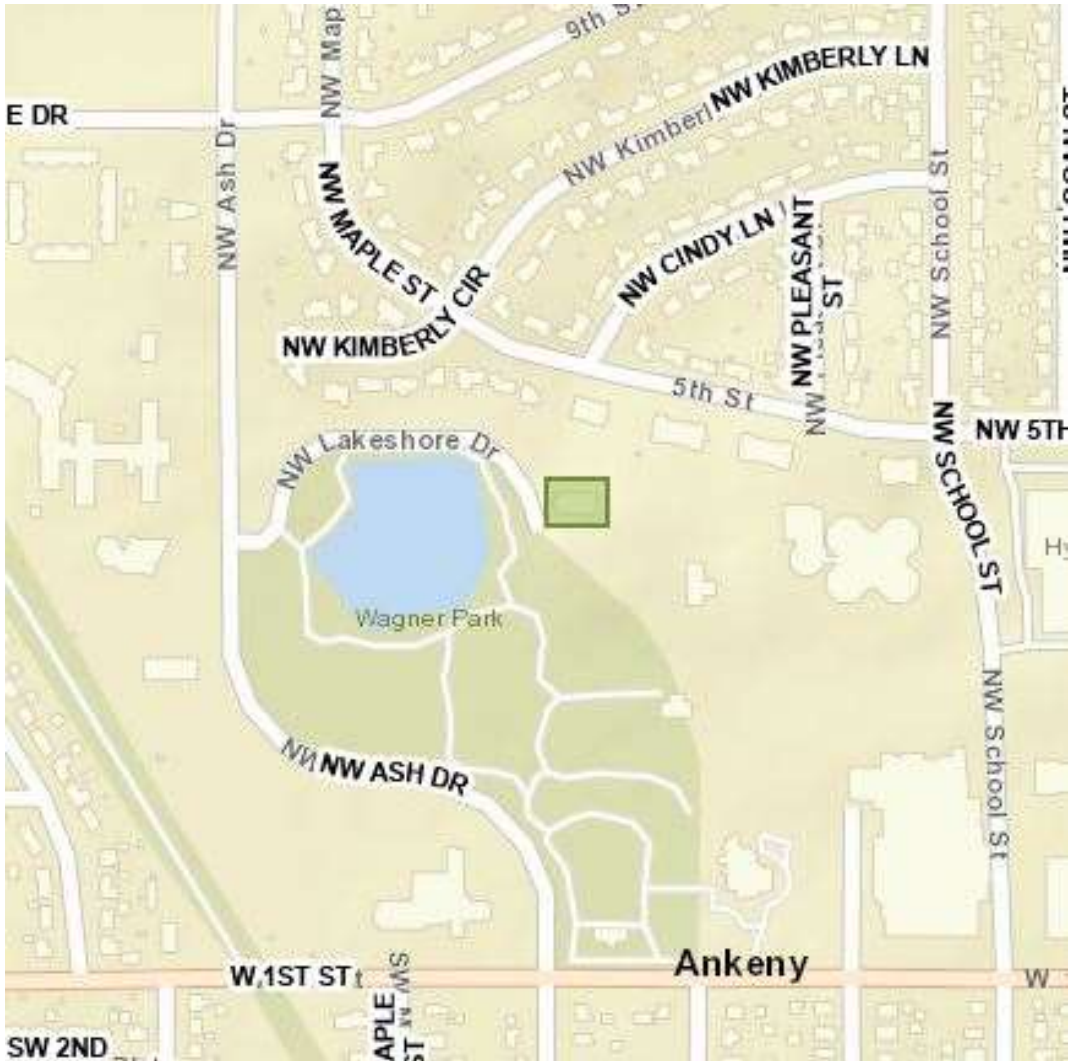
Impacts will be minimal. The square footage of the building structure is unchanged. With the kitchen being removed, the utility costs could reduce. This should be offset by the additional recreational use of the building.

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Administration
Contact Assistant City Manager

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager
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 northern side of Ankeny. The facility would 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 concrete pad in front for material handling. The location for this facility is not set at this time, but 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 current COVID-19 pandemic. A large percentage of the overall city growth is occurring within the northwest quadrant of the City. As this growth continues, having a satellite salt storage facility somewhere on the north side of the city will maintain and improve the efficiency and effectiveness of our snow 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.

Expenditures	2021	2022	2023	2024	2025	Total
Architect		35,000				35,000
Construction Costs			350,000			350,000
Planning Study		5,000				5,000
Total		40,000	350,000			390,000

Funding Sources	2021	2022	2023	2024	2025	Total
Road Use Tax Fund		40,000	350,000			390,000
Total		40,000	350,000			390,000

Budget Impact/Other

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

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs			300	300	300	900
Utilities			200	200	200	600
Total			500	500	500	1,500

2021 - 2025 Capital Improvement Program

2021 thru 2025

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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-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.

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	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	71,000					71,000
Construction Costs	970,000					970,000
Total	1,041,000					1,041,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	975,000					975,000
G.O. Bonds	66,000					66,000
Total	1,041,000					1,041,000

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.

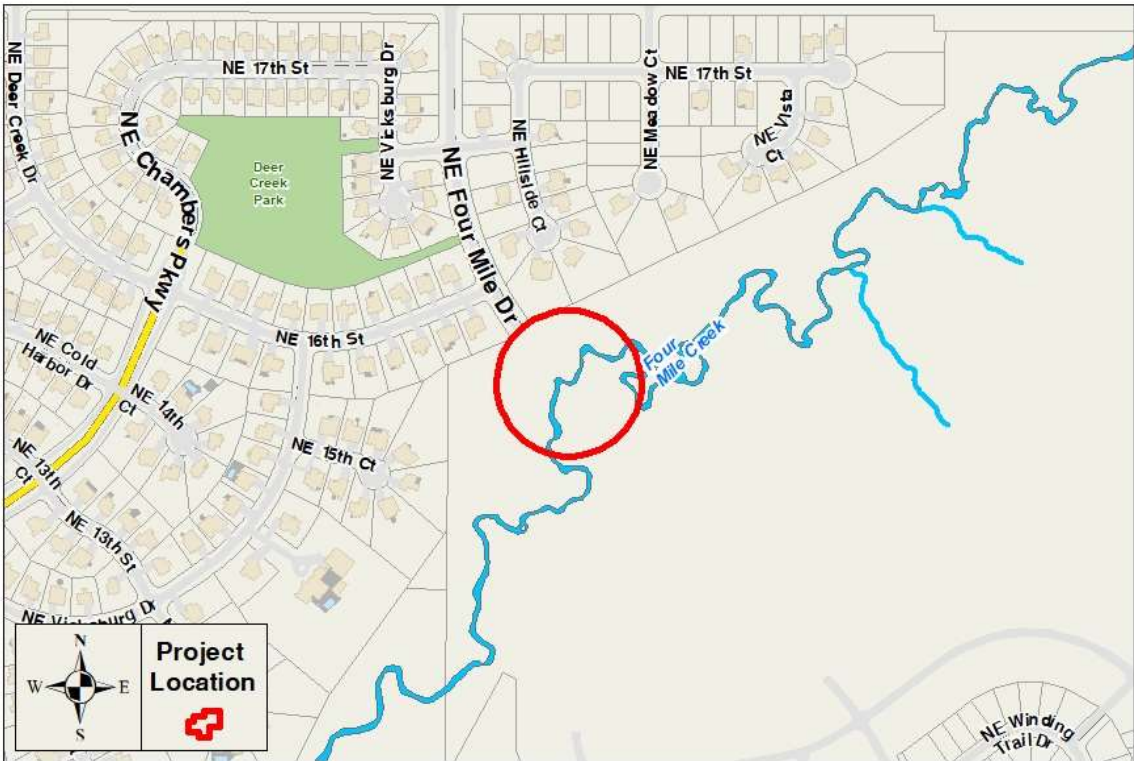
2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 thru 2025

Department Public Works
Contact City Engineer

Project #	BRG-17-001
Project Name	NE Four Mile Drive RCB Culvert-Deer Creek



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project # BRG-20-001

Project Name SE Frisk Drive RCB Culvert

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, and it is very old. The bridge is located south of East First Street on SE Frisk Drive, spanning a tributary stream to Four Mile Creek. This project includes engineering design, construction and construction engineering services 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	2021	2022	2023	2024	2025	Total
Engineering-Construction				50,000		50,000
Services						
Construction Costs				260,000		260,000
Total				310,000		310,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds				310,000		310,000
Total				310,000		310,000

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

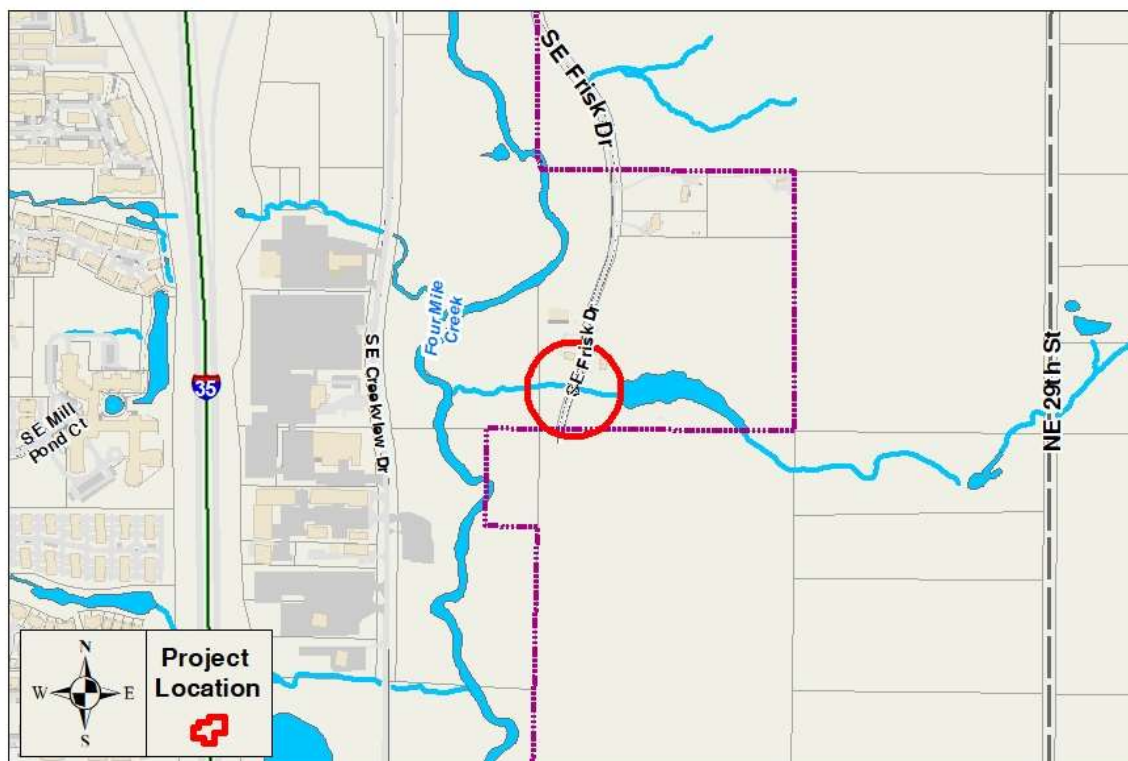
2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # **BRG-20-001**

Project Name SE Frisk Drive RCB Culvert



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

2021
☐ Centennial Park Development Phase II: playground, parking lot, trail loop, shelter, etc.
☐ Otter Creek Park Baseball Diamond Installation
☐ Park Signs: Westview, Estates, Wildflower and Centennial

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
☐ Other projects TBD based on park dedication, development funding and pace of development

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	27,000	30,000	30,000	30,000	30,000	147,000
Construction Costs	468,000	350,000	350,000	350,000	350,000	1,868,000
Total	495,000	380,000	380,000	380,000	380,000	2,015,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	118,000					118,000
G.O. Bonds	297,000	300,000	300,000	300,000	300,000	1,497,000
Park Dedication Fund	80,000	80,000	80,000	80,000	80,000	400,000
Total	495,000	380,000	380,000	380,000	380,000	2,015,000

Budget Impact/Other

Centennial Park construction will increase operating and maintenance costs by a negligible amount.

Budget Items	2021	2022	2023	2024	2025	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

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-00-002

Project Name Annual Park Development Program



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

Project # PRK-17-003
Project Name Parks Renovation Plan

Description

As part of the 2016-17 Strategic Plan, department staff were tasked with taking an inventory and assessing current community parks that were deemed “older” and in need of potential improvements. Fourteen parks were evaluated and evaluation criteria was developed to help staff recommend and prioritize each park improvement. Some improvements are as simple as replacing benches and grills, to as extensive as parking lot overlays and replacement of basketball courts. The Older Parks Condition and Renovation Plan was adopted by City Council in 2016.

The recommendations associated with each of the park assessments were prioritized to provide the basis of the proposed capital improvements. These recommendations are based on the inventory and assessment of each park and facility, findings from the inspection process and on an understanding of the funding opportunities that may be appropriate for future projects.

Justification

2021 planned renovation projects include:

- Sunset Park baseball diamond renovation: \$40,000
- Sunrise Park baseball diamond renovation: \$40,000
- Add pedestrian trail loop and shelter pad at Wildflower Park: \$90,000 (City staff engineering)
- Add shelter at Wildflower Park: \$20,000 (City staff engineering)
- Replace interior east trail at Village Park: \$75,000 (City staff engineering)

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	265,000					265,000
Total	265,000					265,000
Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	50,000					50,000
General Fund	215,000					215,000
Total	265,000					265,000

Budget Impact/Other

N/A

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-17-003

Project Name Parks Renovation Plan



city of
Ankeny

bringing it all together

City of Ankeny, Iowa

2021 *thru* 2025

Department Parks and Recreation

Contact Parks and Recreation Director

Type New Construction

Useful Life 40 years

Category Park Facilities

Project # **PRK-18-001**

Project Name **High Trestle Trail Trailhead and Parking Lot**

Description

High Trestle Trail Trailhead and Parking Lot – NW Ankeny

Justification

This project is part of the required 6(f) conversion process to replace current parkland that has been repurposed near the Otter Creek Golf Course for the construction of Fire Station No. 3. An additional access point for the High Trestle Trail will be a great amenity for the northwest part of Ankeny and will provide opportunities for physical fitness and help drive bike tourism. The parking lot, bike repair station, hydration station and trail access will be located at 2055 NW Irvinedale Drive, adjacent to the new Northwest Booster Station. The parking lot and trail access will provide neighboring residents and trail users a much needed feature in the NW part of Ankeny. This project also incorporates completing the current trail gap along the east side of Irvinedale Drive both north and south of the High Trestle Trail. This project fulfills the 6(f) conversion requirements approved by the Iowa DNR Budget & Finance Bureau. The project is currently in a Professional Services Agreement with MSA Engineering for design and construction administration services for a cost of \$55,700.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	356,000					356,000
Total	356,000					356,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	325,000					325,000
G.O. Bonds	31,000					31,000
Total	356,000					356,000

Budget Impact/Other

The trailhead/parking lot construction will increase operating and maintenance costs by a negligible amount. Maintenance hours have been included for the cleaning/clearing of the parking lot and the minimal mowing that will occur.

Budget Items	2021	2022	2023	2024	2025	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

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

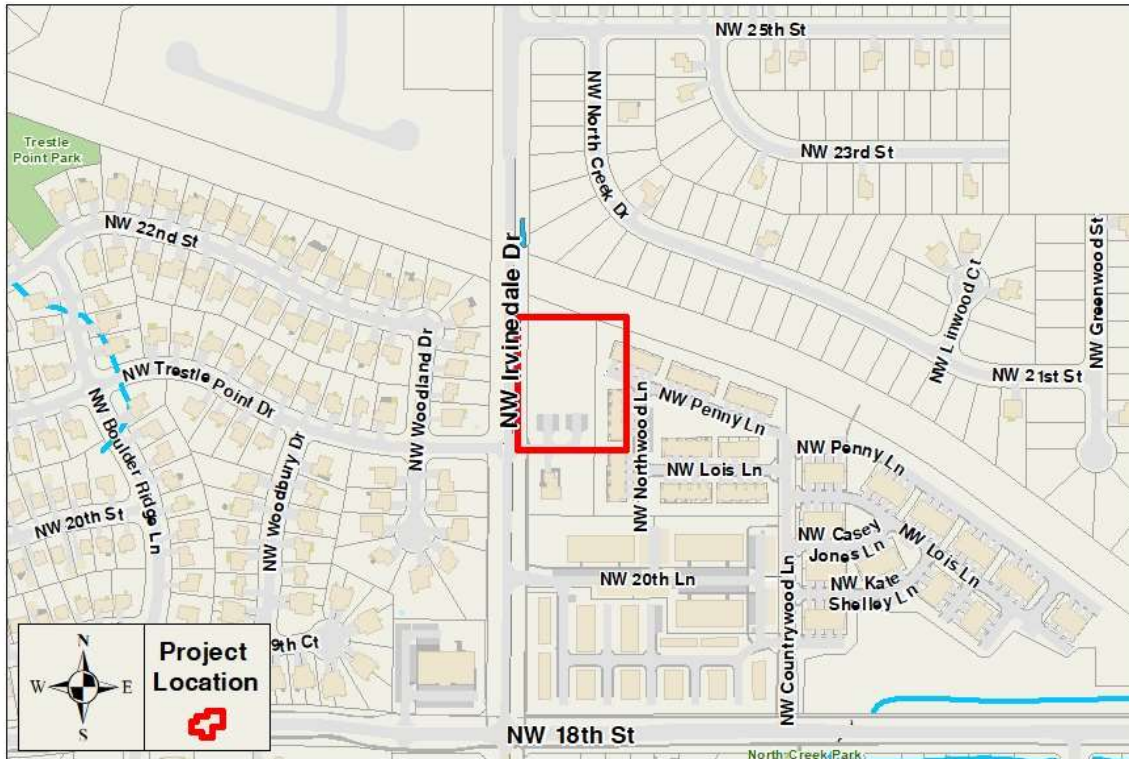
2021 *thru* 2025

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-18-001

Project Name High Trestle Trail Trailhead and Parking Lot



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Type Improvement

Useful Life 20 years

Category Park Facilities

Project # PRK-18-003

Project Name Hawkeye Park-Tennis Courts Reconstruction

Description

Hawkeye Park Sports Complex – Tennis Courts Reconstruction

Justification

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

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design				50,000		50,000
Construction Costs				650,000		650,000
Total				700,000		700,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds				700,000		700,000
Total				700,000		700,000

Budget Impact/Other

None, as this project renovates a current park amenity.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-18-003

Project Name Hawkeye Park-Tennis Courts Reconstruction



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Parks and Recreation
Contact Assistant City Manager
Type Purchase
Useful Life 40 years
Category Park Facilities

Project #	PRK-20-006
Project Name	Signature Park

Description

Acquisition of 50+/- acres of undeveloped property located strategically within the northwest quadrant of the City at a location yet to be determined. Waterways, trails, natural hiking opportunities, open greenways, shelter buildings and associated amenities are contemplated.

Justification

The City is exploring opportunities for acquiring property and ultimately developing a signature park that would provide varied additional natural amenities.

Costs include property acquisition in the 5-year CIP, with improvements planned for the high priority horizon.

Expenditures	2021	2022	2023	2024	2025	Total
Land/ROW Acquisition		2,000,000				2,000,000
Planning Study	10,000					10,000
Total	10,000	2,000,000				2,010,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	10,000	1,840,000				1,850,000
Capital Reserve Fund		160,000				160,000
Total	10,000	2,000,000				2,010,000

Budget Impact/Other

Undetermined at this time.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs			300	300	300	900
Utilities			200	200	200	600
Total			500	500	500	1,500

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Parks and Recreation

Contact Assistant City Manager

Project # PRK-20-006

Project Name Signature Park



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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-20-007
Project Name Ankeny Kirkendall Public Library Playground

Description

Construction of a small playground and related amenities at the new Ankeny Kirkendall Public Library.

Justification

Community playgrounds offer a multitude of benefits that go far beyond aesthetics and giving kids something fun to do. They are the heart of a community and an indispensable gathering space that can benefit everyone. The available greenspace adjacent to the new Ankeny Kirkendall Public Library provides a great opportunity for a new playground where a captive audience of thousands of children will visit on an annual basis.

The inclusive playground components and included park amenities have been selected. The estimated project cost has been updated to reflect the addition of a shelter, trail connections and minor utility work. The playground will be purchased in 2020 with a spring 2021 installation scheduled.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	225,000					225,000
Total	225,000					225,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Reserve Fund	225,000					225,000
Total	225,000					225,000

Budget Impact/Other

N/A

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

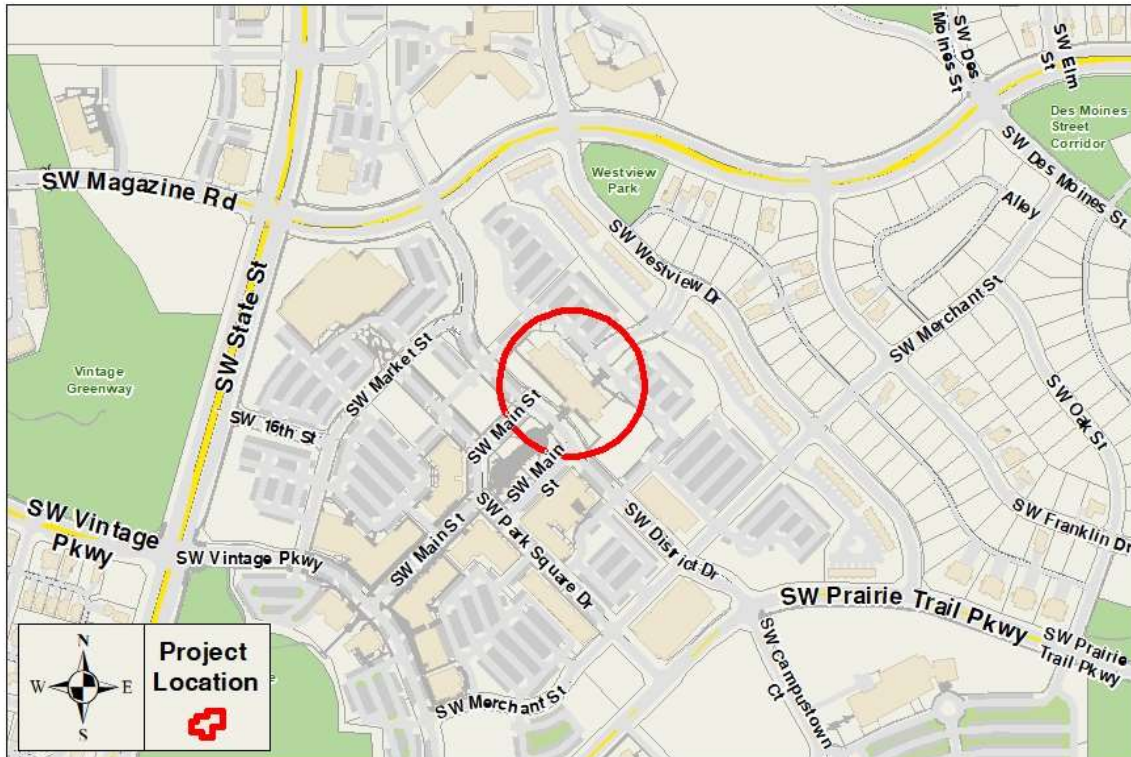
2021 *thru* 2025

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-20-007

Project Name Ankeny Kirkendall Public Library Playground



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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-21-001
Project Name	High Trestle Trail Restroom & Amenities

Description

High Trestle Trail Trailhead Restroom and Amenities – restroom facility combined with artwork front porch.

Justification

The project site is at a targeted location along the trail and included as part of the High Trestle Trail Experience Master Plan. It will be coordinated with artist Matthew Mazzotta. Mazzotta proposes to integrate with existing plans to create a front porch that expresses Ankeny’s welcoming nature and home-town feel. The “drop-in” front porch will have an ADA ramp and contain a unisex restroom along with other trailhead amenities.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	250,000					250,000
Total	250,000					250,000
Funding Sources	2021	2022	2023	2024	2025	Total
Hotel/Motel Tax Fund	200,000					200,000
Other Grants	50,000					50,000
Total	250,000					250,000

Budget Impact/Other

Operation and maintenance costs of the restroom site will average around \$1,700 annually.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs	1,200	1,200	1,200	1,200	1,200	6,000
Utilities	500	500	500	500	500	2,500
Total	1,700	1,700	1,700	1,700	1,700	8,500

City of Ankeny, Iowa

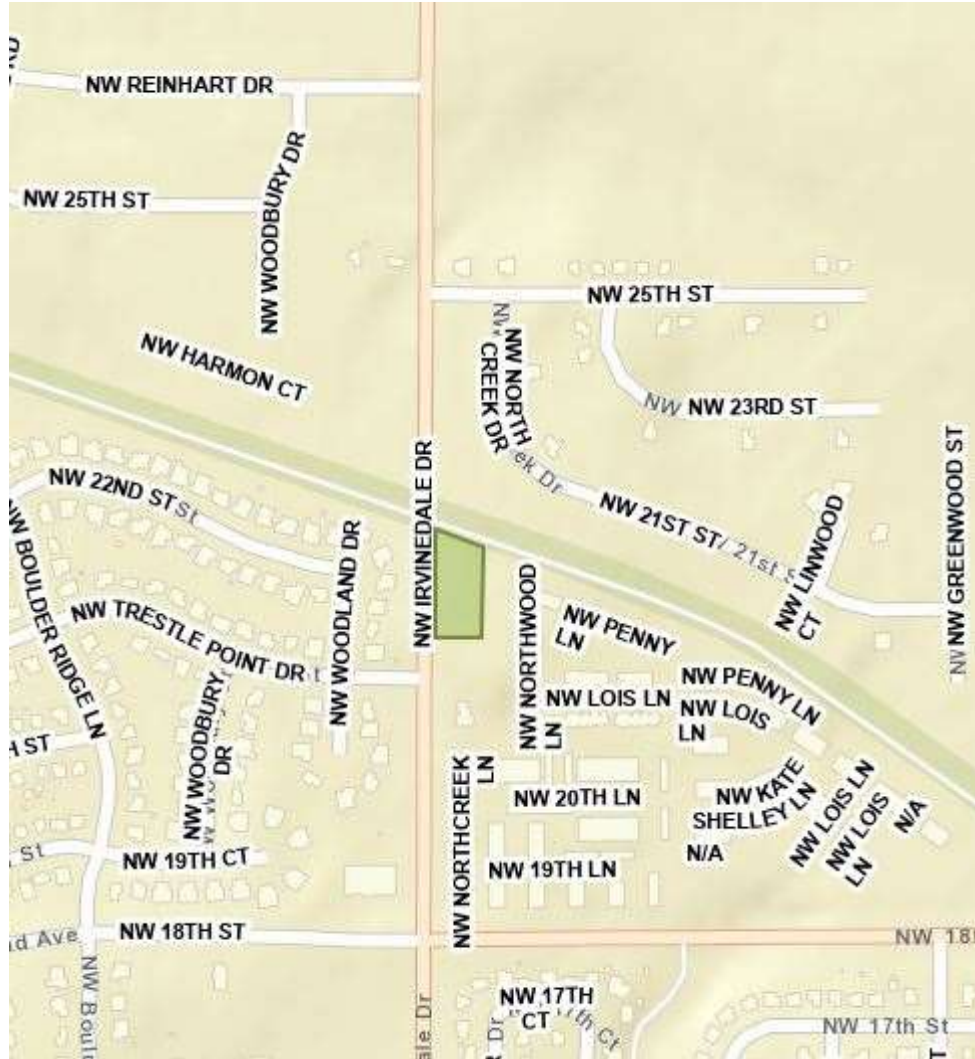
2021 *thru* 2025

Department Parks and Recreation

Contact Parks and Recreation Director

Project # **PRK-21-001**

Project Name **High Trestle Trail Restroom & Amenities**



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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
The Des Moines Street Parks 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 storm water management corridors and passive natural areas. The desired park elements include picnic shelters, playgrounds, practice fields, basketball courts, trails and passive open space. The entire project is being proposed in three phases (over six years) with a total estimated cost of \$2,268,566.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	55,000		80,000		75,000	210,000
Construction Costs		475,000		725,000		1,200,000
Total	55,000	475,000	80,000	725,000	75,000	1,410,000
Funding Sources	2021	2022	2023	2024	2025	Total
Civic Trust Fund	55,000	475,000	80,000	725,000	75,000	1,410,000
Total	55,000	475,000	80,000	725,000	75,000	1,410,000

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

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs			1,500	1,500	3,200	6,200
Total			1,500	1,500	3,200	6,200

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-21-002

Project Name Des Moines Street Parks Development



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

This program includes constructing pedestrian improvements adjacent to City streets:

- Development sidewalk oversizing, 2021 to 2025 - \$75,000/year (previous development agreements)
- Sidewalk and pedestrian ramp gaps along City property & major streets, 2021 to 2025 - \$125,000/year (construction)
- Pedestrian Ramp Improvements for ADA Compliance, 2021 to 2025 - \$125,000/year (construction)
- 8-ft. sidewalk and 10-ft. trail panel replacements, 2021 to 2025 - \$25,000/year (construction)
- SW Ankeny Road Sidewalk Improvements Concept Study, 2021 - \$25,000 (study)

The projects that are constructed annually from this program are designed and inspected in-house by Public Works Engineering Division staff. Specific individual 8-ft. sidewalk and 10-ft. trail projects are typically designed by a Consultant.

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 & Recreation Department to maximize the connectivity of the overall trail and sidewalk system.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	325,000	350,000	350,000	350,000	350,000	1,725,000
Planning Study	25,000					25,000
Total	350,000	350,000	350,000	350,000	350,000	1,750,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	225,000	225,000	225,000	225,000	225,000	1,125,000
Road Use Tax Fund	125,000	125,000	125,000	125,000	125,000	625,000
Total	350,000	350,000	350,000	350,000	350,000	1,750,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs	1,800	2,200	2,600	3,000	3,400	13,000
Total	1,800	2,200	2,600	3,000	3,400	13,000

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # SDW-00-001

Project Name Annual Sidewalk/Trail Construction Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

The construction of 1.65 miles of 10' PCC recreation trail along the High Trestle Trail corridor from SE Magazine Road to SE Oralabor Road. The project will include an overpass of SE Oralabor Road.

Justification

The extension of the trail is proposed in two phases. The trail is currently being extended from its current terminus at Ordinance Road southeast to Magazine Road. Phase I includes a tunnel under Highway 69 and is on schedule to be completed in 2020, with surface restoration completed in spring 2021. Phase 2 will consist of the trail's extension from SE Magazine Road to a direct connection with the Gay Lea Wilson Trail located on the south side of SE Oralabor Road/Highway 160. The project will include a grade separated crossing (specifically an overpass) to navigate trail users over the high traffic volumes experienced on SE Oralabor Road/Highway 160. Currently, \$1,000,000 has been secured in external funding for Phase 2 through the Des Moines Area MPO Transportation Alternatives Program and State Recreational Trails Project Funding. It is assumed that the project will receive an additional \$200,000 in U-STEP funding from the Iowa DOT.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	150,000					150,000
Construction Costs	2,600,000					2,600,000
Total	2,750,000					2,750,000

Funding Sources	2021	2022	2023	2024	2025	Total
FHWA/IDOT Grants	500,000					500,000
G.O. Bonds	1,550,000					1,550,000
MPO/STBG Grants	700,000					700,000
Total	2,750,000					2,750,000

Budget Impact/Other

The addition of the trail extension will increase operating and maintenance costs by \$1,650 annually.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs	1,650	1,650	1,650	1,650	1,650	8,250
Total	1,650	1,650	1,650	1,650	1,650	8,250

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

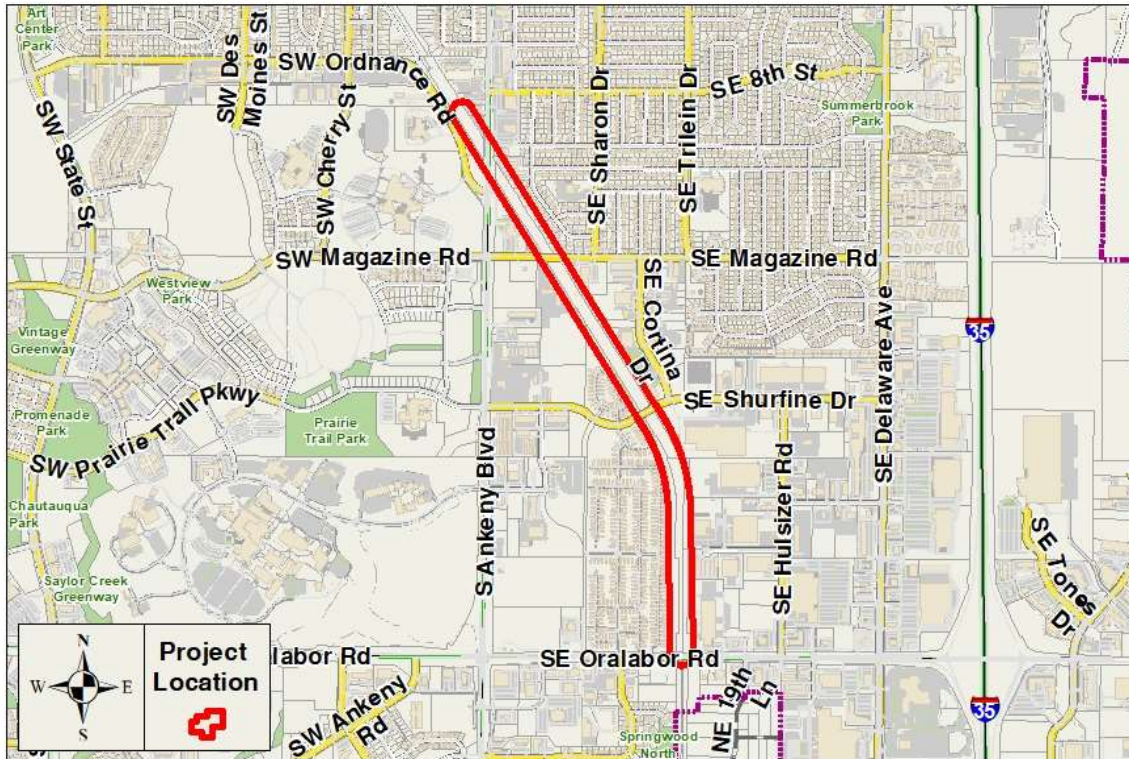
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # SDW-16-001

Project Name High Trestle Trail Extension-Magazine to Oralabor



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact Assistant City Manager

Type New Construction

Useful Life 40 years

Category Sidewalks/Trails

Project # SDW-19-001

Project Name Oralabor Gateway Trail-State St Separated Crossing

Description

Construction of a grade-separated crossing (bridge or tunnel) for the Oralabor Gateway Trail at the intersection of SW State Street and SW Oralabor Road. The proposed grade-separated crossing will span the south leg of the intersection. A study will be completed in 2021 to determine the preferred alternative (bridge or tunnel) for the crossing. Also, the development of this project will need to be coordinated with the SW Oralabor Road & SW State Street Intersection 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 SE/SW 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 overly wide due to the rural environment and granular shoulders on SW State Street. The street approach and the intersection as a whole carries extremely large traffic volumes. 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 \$800,000 of STBG-TAP funding from the Des Moines Area MPO for construction in 2023. SW State Street and SW Oralabor Road (IA Highway 415 & 160) are joint jurisdictional streets with the Iowa DOT, so the project will need to be coordinated with them.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design		200,000				200,000
Engineering-Construction Services			150,000			150,000
Construction Costs			1,500,000			1,500,000
Land/ROW Acquisition		5,000				5,000
Survey/Preliminary Analysis	35,000					35,000
Total	35,000	205,000	1,650,000			1,890,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	35,000	205,000	550,000			790,000
MPO/STBG Grants			1,100,000			1,100,000
Total	35,000	205,000	1,650,000			1,890,000

Budget Impact/Other

After completion, the new grade-separated structure should require only a minor amount of maintenance each year.

City of Ankeny, Iowa

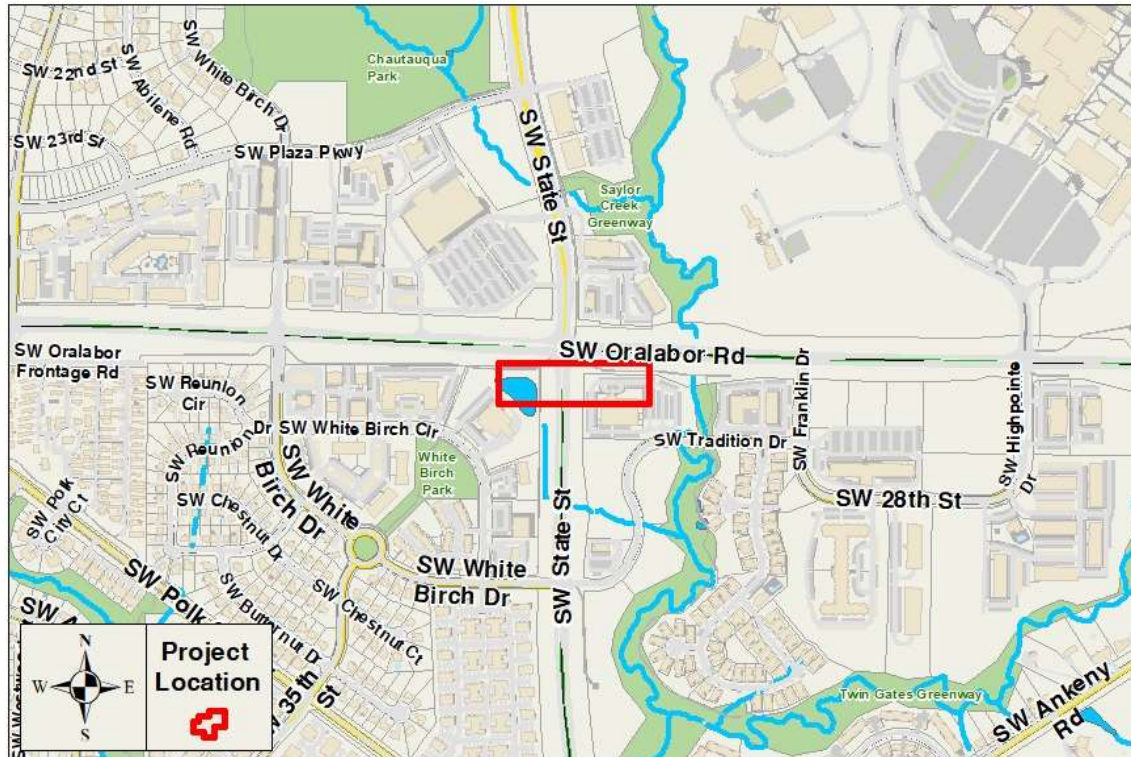
2021 *thru* 2025

Department Public Works

Contact Assistant City Manager

Project # **SDW-19-001**

Project Name Oralabor Gateway Trail-State St Separated Crossing



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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. Specific projects for 2021 to 2025 include:

- CIPP sanitary sewer lining: 2021 to 2025 - \$500,000/year even years
- Manhole major adjustments/repairs: 2021 to 2025 - \$25,000/year
- Sanitary sewer spot repairs: 2021 to 2025 - \$50,000/year
- Development sanitary sewer oversizing: 2021 - 2025 - \$30,000/year
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2021 - \$50,000 (engineering) \$600,000 (construction); 2022 - \$40,000 (engineering) \$460,000 (construction); 2023 - \$40,000 (engineering) \$410,000 (construction); 2024 - \$20,000 (engineering) \$430,000 (construction)
- I/3 Next Neighborhood Utility Improvements: 2023 - \$25,000 (engineering); 2024 - \$50,000 (engineering); 2025 - \$50,000 (engineering) \$500,000 (construction)

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. Also, includes recommended SSES studies to be conducted as per recommendations from the Sanitary Sewer Master Plan.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	50,000	40,000	65,000	70,000	50,000	275,000
Construction Costs	705,000	1,065,000	515,000	1,035,000	605,000	3,925,000
Total	755,000	1,105,000	580,000	1,105,000	655,000	4,200,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund		505,000		505,000	55,000	1,065,000
Sewer Fund	600,000	600,000	580,000	600,000	600,000	2,980,000
Special Assessments	155,000					155,000
Total	755,000	1,105,000	580,000	1,105,000	655,000	4,200,000

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. Additionally, there will be administrative time for planning and design work.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities	100	100	100	100	100	500
Total	100	100	100	100	100	500

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 2,000 LF of 24" diameter and 3,800 LF of 18" diameter trunk sewer from the end of the existing Otter Creek Truck Sewer – Phase 2 on the east side of Interstate 35, extended east to future north/south collector street and ultimately east to NE Four Mile Drive and south to NE 36th Street.

Justification

The purpose of this project is to extend sanitary sewer service east and south to the area around NE 36th Street and NE Four Mile Drive. This project will allow for the future growth of the northeast portion of the City of Ankeny.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	181,000					181,000
Engineering-Construction Services		181,000				181,000
Construction Costs		1,808,000				1,808,000
Land/ROW Acquisition	180,000					180,000
Total	361,000	1,989,000				2,350,000
Funding Sources	2021	2022	2023	2024	2025	Total
Sewer Fund	361,000	1,989,000				2,350,000
Total	361,000	1,989,000				2,350,000

Budget Impact/Other

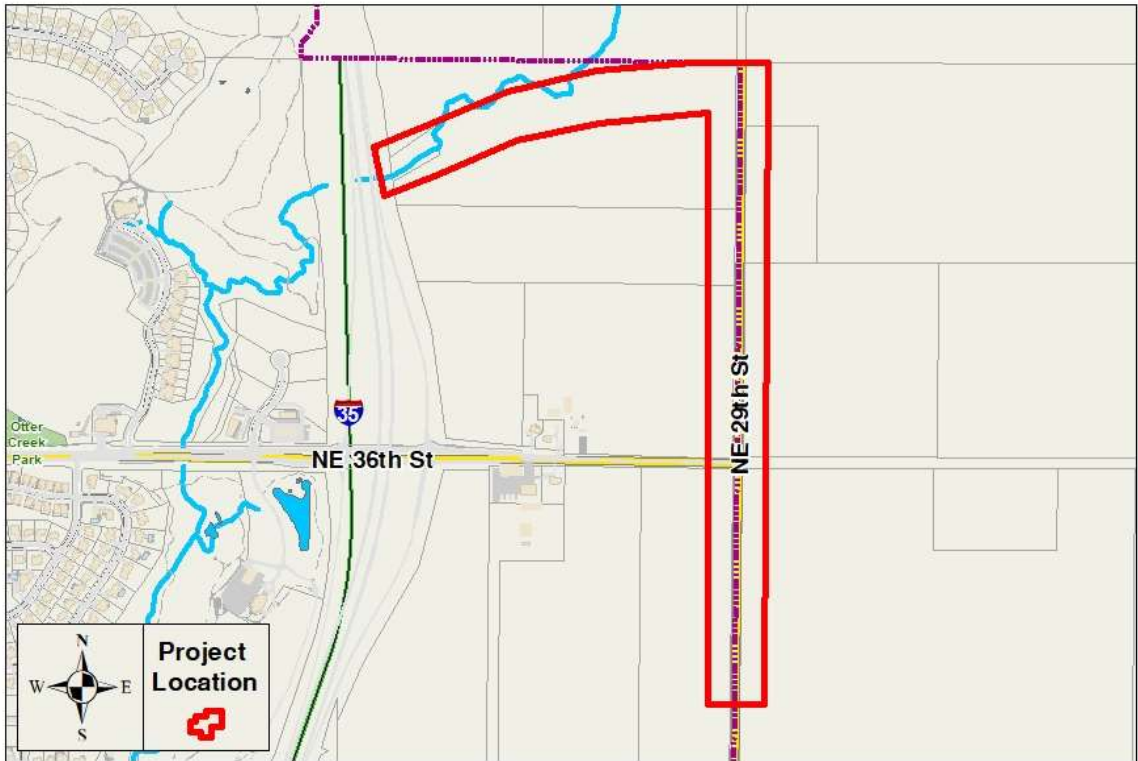
Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However being large diameter trunk sewer, this would have a lower frequency of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

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Sewer Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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	2021	2022	2023	2024	2025	Total
Engineering-Design			95,000			95,000
Engineering-Construction Services				95,000		95,000
Construction Costs				935,000		935,000
Land/ROW Acquisition			100,000			100,000
Total			195,000	1,030,000		1,225,000
Funding Sources	2021	2022	2023	2024	2025	Total
Sewer Fund			195,000	1,030,000		1,225,000
Total			195,000	1,030,000		1,225,000

Budget Impact/Other

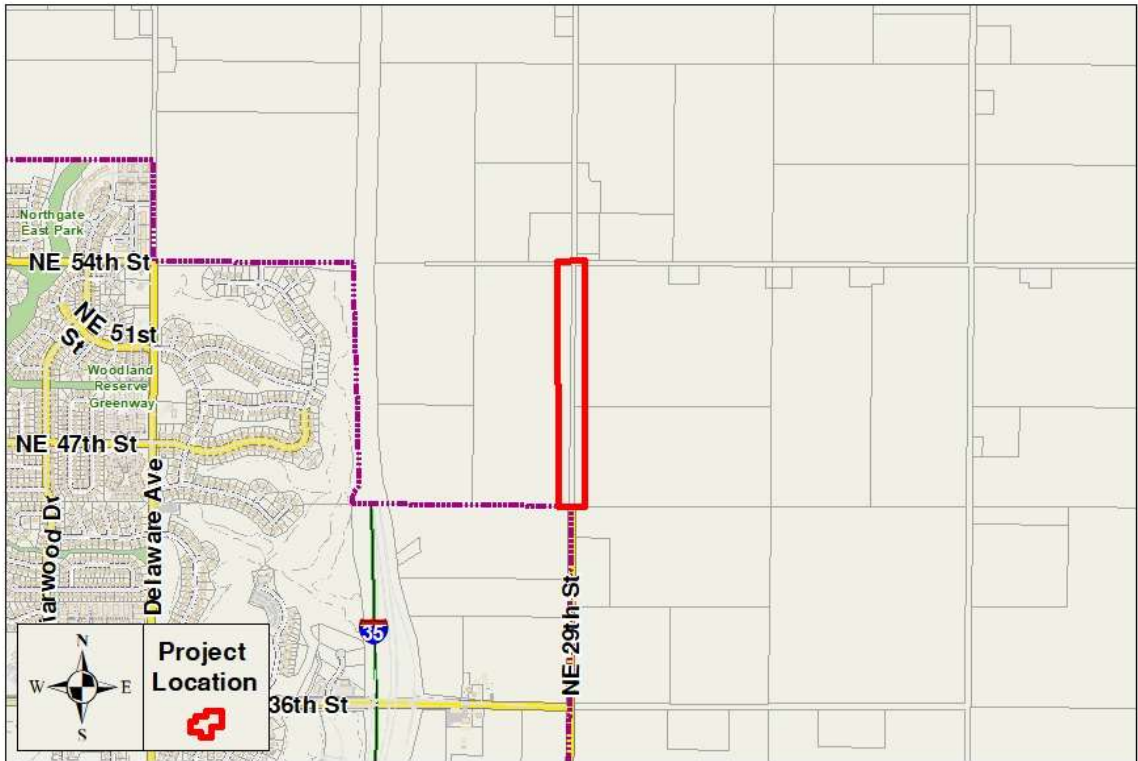
Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However being large diameter trunk sewer, this would have a lower frequency of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

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Sewer Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 N 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 54th Street. The timing of this project will depend upon development on the property that was recently annexed north of Harvest Ridge Plat 1.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design				175,000		175,000
Engineering-Construction Services					150,000	150,000
Construction Costs					1,660,500	1,660,500
Land/ROW Acquisition					14,500	14,500
Total				175,000	1,825,000	2,000,000

Funding Sources	2021	2022	2023	2024	2025	Total
Sewer Fund				175,000	1,825,000	2,000,000
Total				175,000	1,825,000	2,000,000

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.

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Sewer Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 850 LF of 15" sanitary sewer along SE 3rd Street, between SE Grant Street and SE Sharon Drive. Additionally, the existing 4" water main within that same corridor will be replaced and upsized to 8" main. 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	2021	2022	2023	2024	2025	Total
Engineering-Design	165,000					165,000
Engineering-Construction Services		165,000				165,000
Construction Costs		1,529,000				1,529,000
Total	165,000	1,694,000				1,859,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	104,000					104,000
Sewer Fund	61,000	1,694,000				1,755,000
Total	165,000	1,694,000				1,859,000

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 11,000 gallons to fill and flush the new water main.

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Sewer Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

Project # SNS-20-003
Project Name West Outfall Basin Sanitary Sewer Improvements

Description

Install approximately 2,100 LF of 24" diameter sanitary trunk sewer from near the intersection of SW State Street and SW Plaza Parkway to an existing 24" trunk line crossing SW Oralabor Road.

Justification

The purpose of this project is to provide relief to a segment of sewer where a bottleneck exists due to an undersized downstream segment. A significant number of residents in upstream reaches have historically experienced basement backups as a result of the current design. Construction will include a stream crossing, along with easement acquisitions.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	100,000					100,000
Construction Costs	1,115,000					1,115,000
Land/ROW Acquisition	50,000					50,000
Total	1,265,000					1,265,000

Funding Sources	2021	2022	2023	2024	2025	Total
Sewer Fund	1,265,000					1,265,000
Total	1,265,000					1,265,000

Budget Impact/Other

This trunk sewer is able to handle moderate rainfall events, however, for more significant events, the trunk sewer becomes one of the bottlenecks along this primary interceptor route. Installation of this new segment of 24" trunk will help to alleviate some of the upstream surcharging, help eliminate the loss of sewer capacity from upstream and downstream sections, and ultimately result in a reduction of basement backups.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

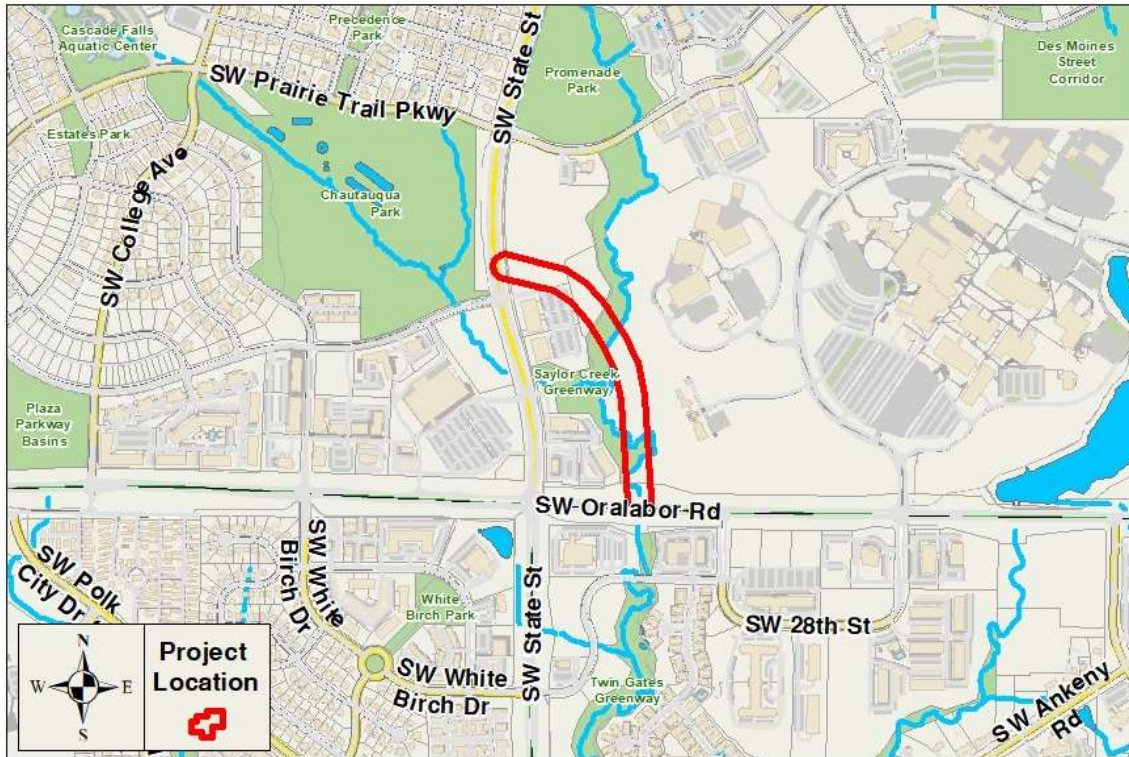
City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-20-003

Project Name West Outfall Basin Sanitary Sewer Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

Description

The Canyon Landing Sanitary Sewer Cost Share project will include the installation of approximately 4,500 LF of 21" sanitary line. This line will connect to an existing manhole along Deer Creek on the south side of NE 18th Street (NE 102 Avenue) running west to future NE Deerfield Drive in the proposed Canyon Landing development. The line will continue through the 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 is being proposed due to the developer's immediate need for sewer connection for Plat 1 of their proposed development. The City 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. Providing funding for this project could save the City in cost for future installation of approximately \$1,000,000.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	930,000					930,000
Total	930,000					930,000
Funding Sources	2021	2022	2023	2024	2025	Total
Sewer Fund	930,000					930,000
Total	930,000					930,000

Budget Impact/Other

N/A

City of Ankeny, Iowa

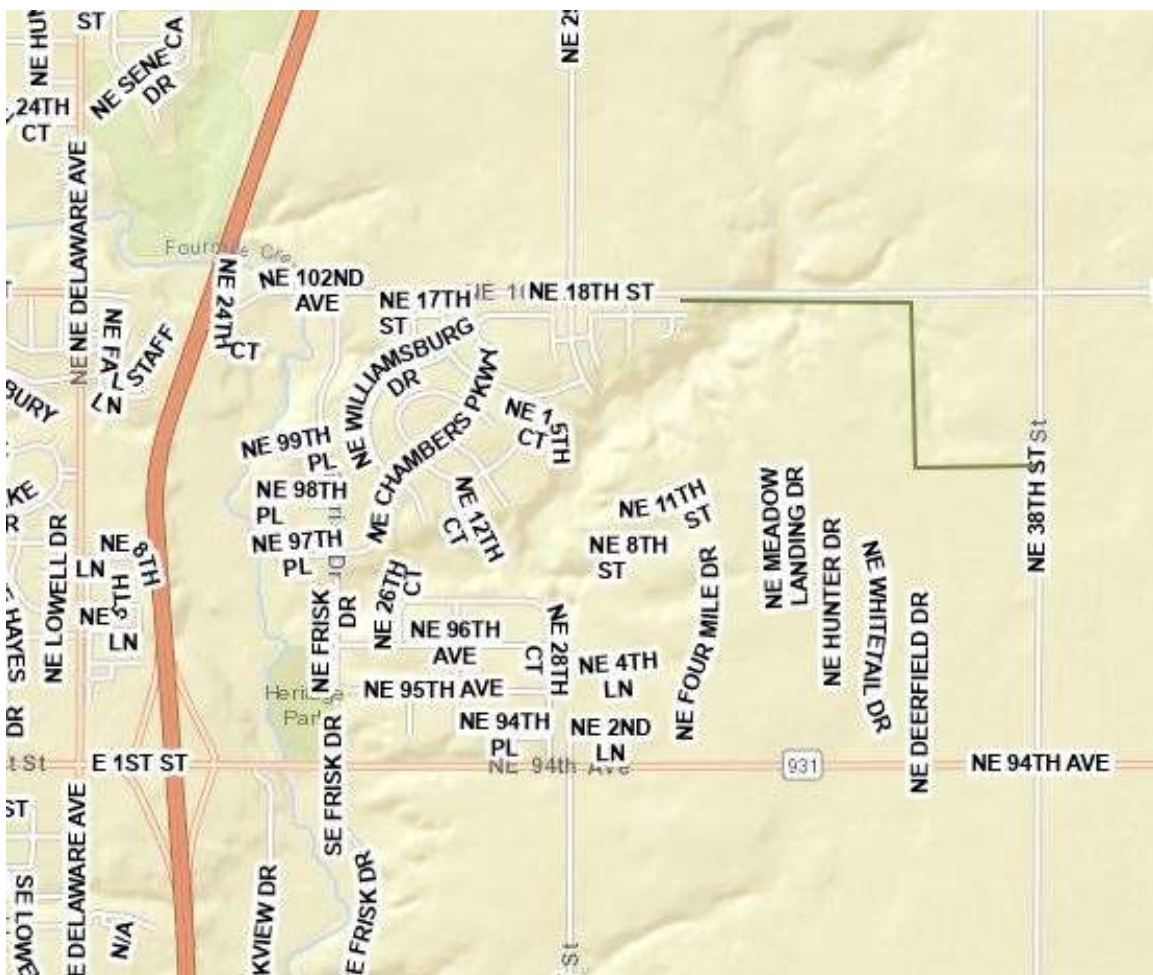
2021 *thru* 2025

Department Sewer Utility

Contact Municipal Utilities Director

Project # **SNS-21-001**

Project Name Canyon Landing Sanitary Sewer Cost Share



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-00-001

Project Name Annual Storm Water Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of storm sewer, structures, channels, etc. Specific projects, listed in order of priority, for 2021 include:

Saylor Creek Tributary – SW Prairie Trail Parkway to SW Orallabor Road, repair and stabilize eroded stream banks, design + construct - \$170,000

Saylor Creek – SW Orallabor Road to SW State Street, remove collapsed bridge, design + construct - \$75,000

NW 9th Street and Greenwood Street Storm Sewer Extension, construct - \$60,000

Storm Water Conservation Design Features within City Property - \$10,000

Minor Storm Water Management and Storm Sewer Improvements and Repairs (locations TBD) - \$30,000

Justification

The purpose of these projects is to repair or improve areas to manage storm water more effectively. The Saylor Creek Tributary project will stabilize sections of eroded stream banks along a tributary of Saylor Creek located between SW Prairie Trail Parkway and SW Orallabor Road. The Saylor Creek collapsed bridge removal project will remove sections of a collapsed bridge that are causing stream bank erosion and stabilize the stream banks. Cost efficiencies may be realized by combining the design and construction of the Saylor Creek Tributary – SW Prairie Trail Parkway to SW Orallabor Road and Saylor Creek collapsed bridge removal projects. The NW 9th Street and Greenwood Street Storm Sewer Extension project will extend an existing 48” storm sewer pipe outlet in the southwest quadrant of the NW 9th Street and Greenwood Street intersection to address safety concerns, reduce on-going maintenance issues and improve aesthetics. 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	2021	2022	2023	2024	2025	Total
Engineering-Design	55,000					55,000
Construction Costs	290,000	250,000	250,000	250,000	250,000	1,290,000
Total	345,000	250,000	250,000	250,000	250,000	1,345,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	95,000					95,000
Storm Water Fund	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	345,000	250,000	250,000	250,000	250,000	1,345,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs	-4,000	-6,000	-8,000	-10,000	-12,000	-40,000
Total	-4,000	-6,000	-8,000	-10,000	-12,000	-40,000

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Storm Water Utility

Contact City Engineer

Project # STM-00-001

Project Name Annual Storm Water Replacement Program



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	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.

City of Ankeny, Iowa

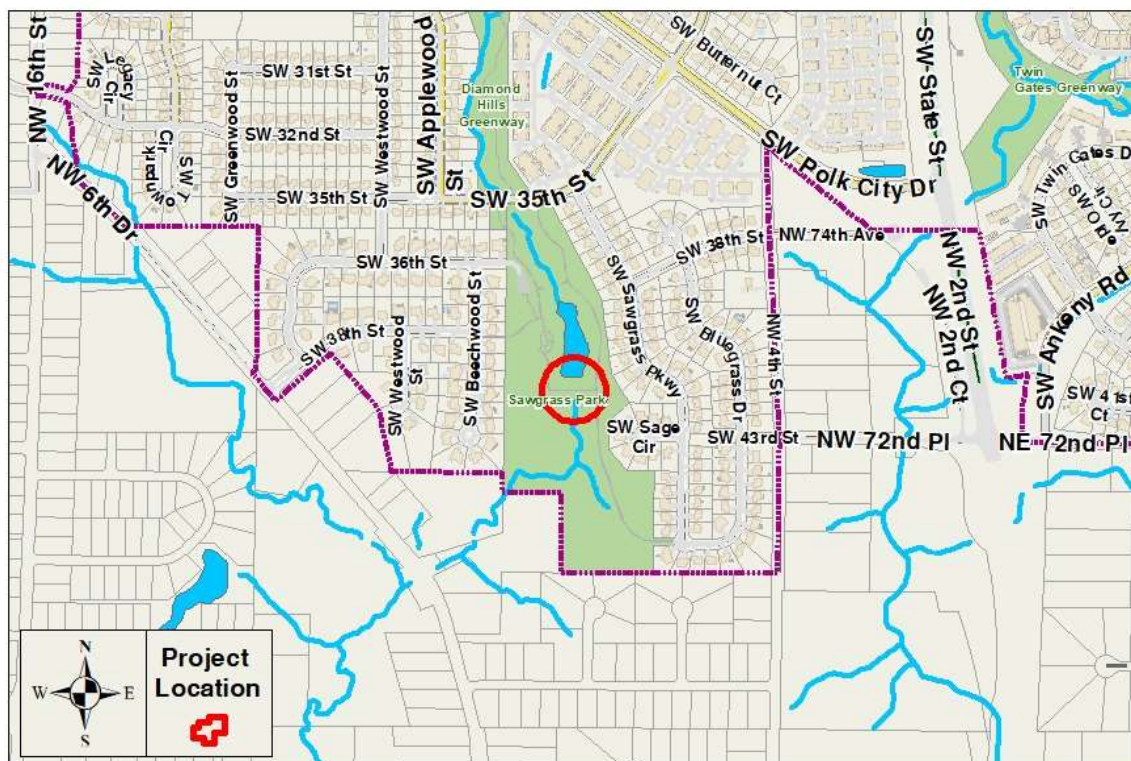
2021 *thru* 2025

Department Storm Water Utility

Contact City Engineer

Project # **STM-19-004**

Project Name Sawgrass Park Dam Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

Description

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

Justification

The purpose of this project is to stabilize the channel, repair a horseshoe meander and remove debris and invasive vegetation which have caused safety and functionality concerns. The project costs are shown for the survey, concept plan and design work to be completed in 2023 with construction of the project scheduled in 2024.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design			55,000			55,000
Engineering-Construction Services				35,000		35,000
Construction Costs				400,000		400,000
Total			55,000	435,000		490,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - Storm Water Abated			55,000	435,000		490,000
Total			55,000	435,000		490,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs					-700	-700
Total					-700	-700

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

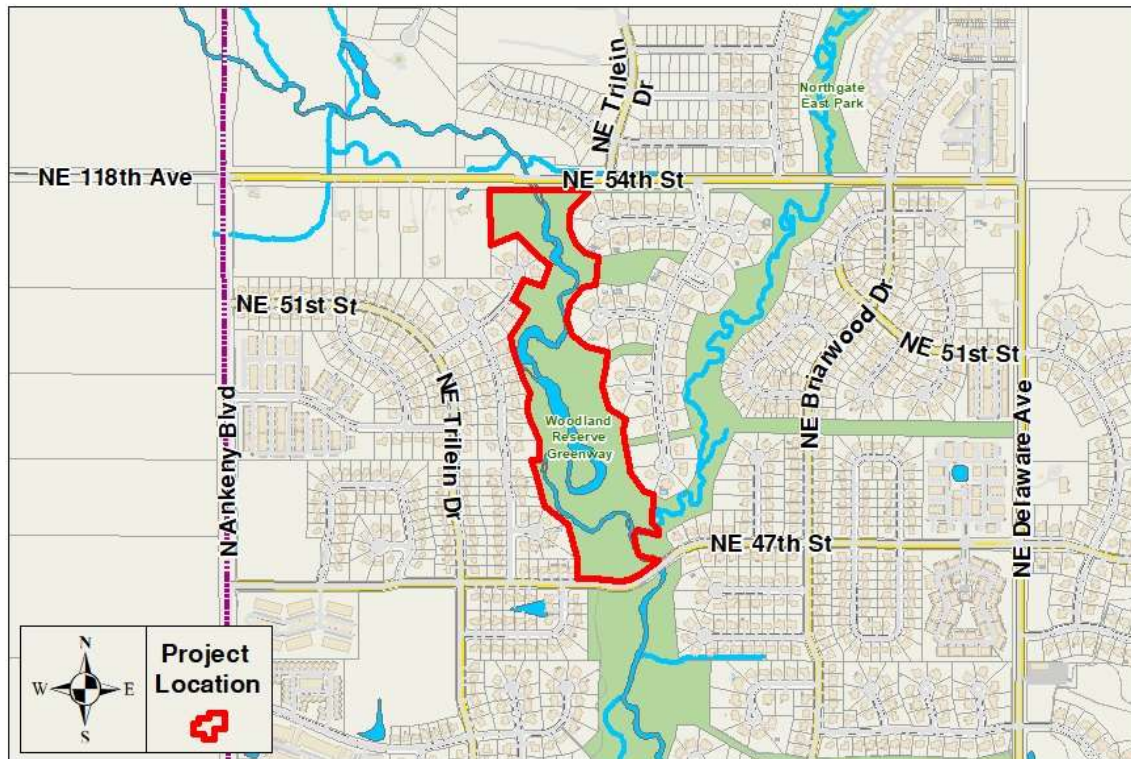
City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-20-001

Project Name Four Mile Creek Channel Stabilization



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 may 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. Permanent drainage easements may need to be acquired in conjunction with 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 project costs are shown for the survey, concept plan and design work to be completed in 2021 with construction of the project scheduled in 2022. This project will need to be coordinated with the Municipal Utilities Department's High Trestle Trail Water Transmission Main project which is proposed in the same corridor and on the same schedule.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	145,000					145,000
Engineering-Construction Services		90,000				90,000
Construction Costs		1,100,000				1,100,000
Planning Study	10,000					10,000
Total	155,000	1,190,000				1,345,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - Storm Water Abated		1,190,000				1,190,000
Storm Water Fund	155,000					155,000
Total	155,000	1,190,000				1,345,000

Budget Impact/Other

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

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs			-2,000	-2,000	-2,000	-6,000
Total			-2,000	-2,000	-2,000	-6,000

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

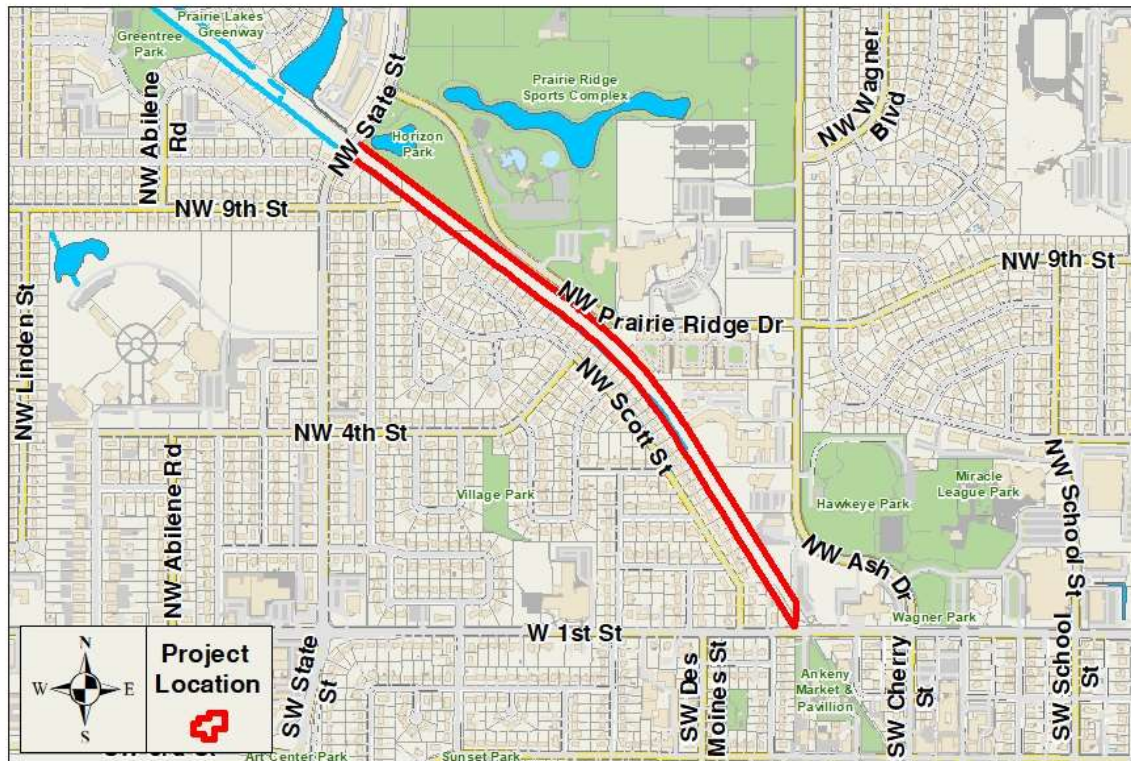
City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-20-002

Project Name High Trestle Trail Channel Stabilization-Phase 1



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 may 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. Permanent drainage easements may need to be acquired in conjunction with 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 project costs are shown for the survey, concept plan and design work to be completed in 2021 and 2022 with construction of the project scheduled in 2023. This project will need to be coordinated with the Municipal Utilities Department's High Trestle Trail Water Transmission Main project which is proposed in the same corridor and on the same schedule.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design		215,000				215,000
Engineering-Construction Services			135,000			135,000
Construction Costs			1,600,000			1,600,000
Planning Study	15,000					15,000
Total	15,000	215,000	1,735,000			1,965,000

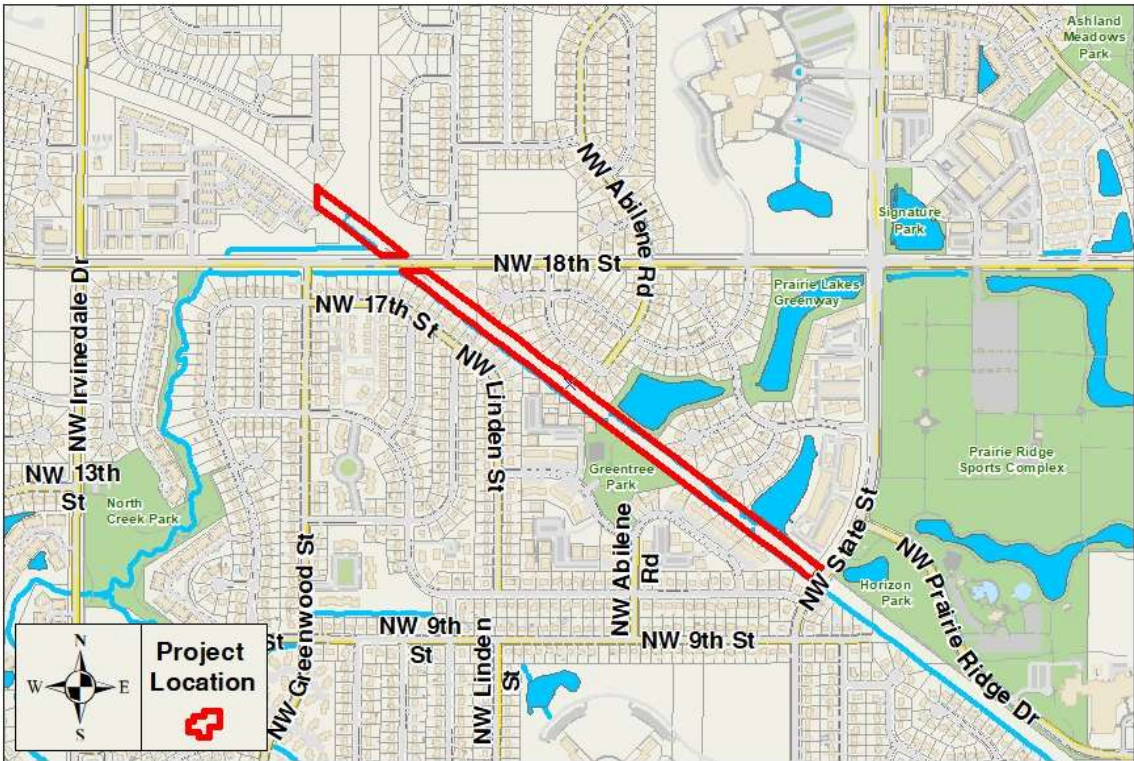
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - Storm Water Abated		215,000	1,735,000			1,950,000
Storm Water Fund	15,000					15,000
Total	15,000	215,000	1,735,000			1,965,000

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 to protect infrastructure and storm water will not be standing or within public infrastructure.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs				-3,000	-3,000	-6,000
Total				-3,000	-3,000	-6,000

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-20-004

Project Name Tributary to Four Mile Creek Channel Stabilization

Description

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

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, repair and modify a storm water detention basin and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey, concept plan and design work to be completed in 2022 and 2023 with construction of the project scheduled in 2024.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design			280,000			280,000
Engineering-Construction Services				180,000		180,000
Construction Costs				2,100,000		2,100,000
Planning Study		30,000				30,000
Total		30,000	280,000	2,280,000		2,590,000

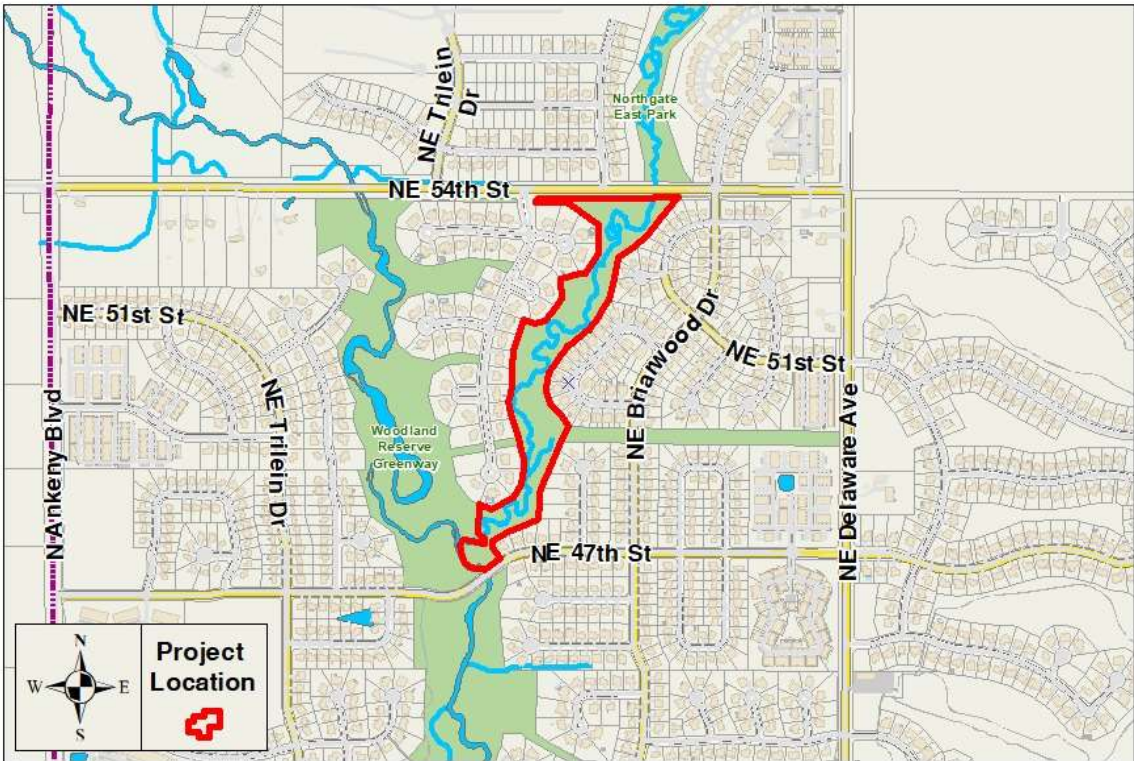
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - Storm Water Abated		30,000	280,000	2,280,000		2,590,000
Total		30,000	280,000	2,280,000		2,590,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs					3,500	3,500
Total					3,500	3,500

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 40 years
Category Storm Water

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

Description

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

Justification

The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-drained soils. Adding sump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. The project’s proposed schedule includes concept design in 2023, survey and design work in 2024, and construction of the project in 2025 and 2026. The estimated project costs for 2026 are \$1,500,000 for construction and \$125,000 for construction engineering services.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design				35,000	300,000	335,000
Total				35,000	300,000	335,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - Storm Water				35,000	300,000	335,000
Abated						
Total				35,000	300,000	335,000

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.

City of Ankeny, Iowa

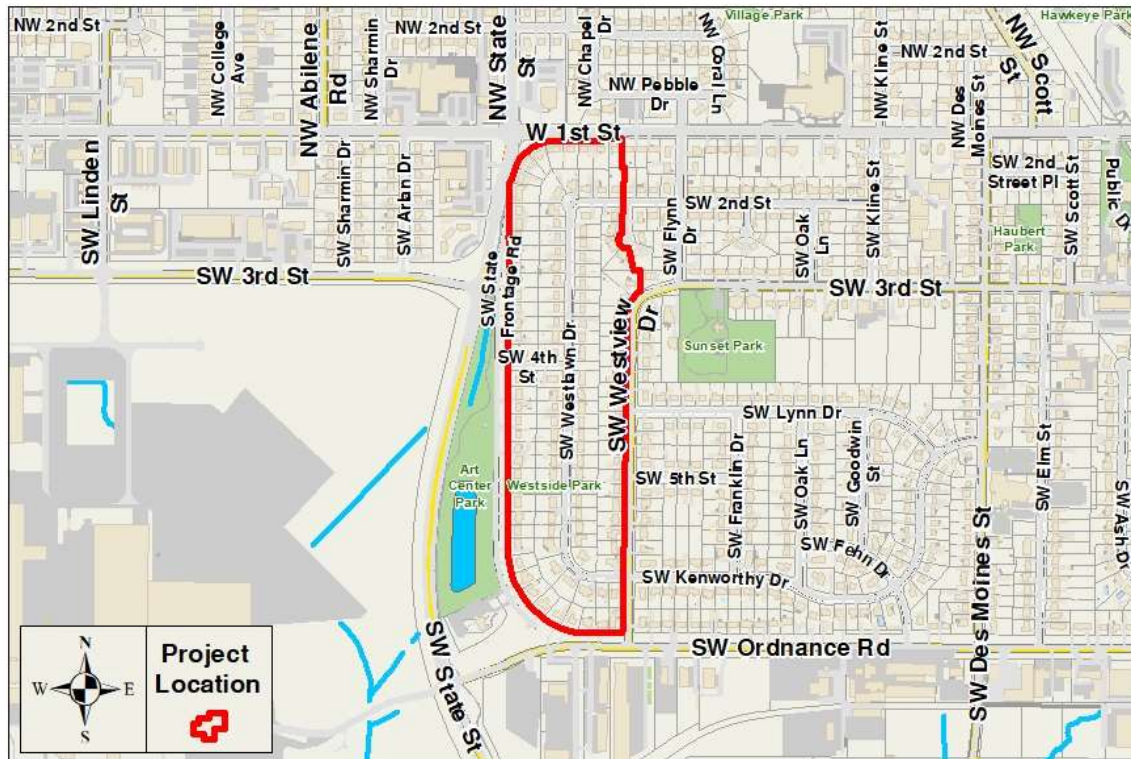
2021 *thru* 2025

Department Storm Water Utility

Contact City Engineer

Project # **STM-20-005**

Project Name Westlawn Area Storm Sewer Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 2021 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 Sanitary Sewer Extension, between SE Grant Street and SE Sharon Drive and water main replacement along SE 3rd Street.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	225,000					225,000
Engineering-Construction Services		60,000	60,000			120,000
Construction Costs		750,000	750,000			1,500,000
Total	225,000	810,000	810,000			1,845,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - Storm Water Abated		410,000	410,000			820,000
Storm Water Fund	225,000	400,000	400,000			1,025,000
Total	225,000	810,000	810,000			1,845,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs			-1,000	-2,000	-2,000	-5,000
Total			-1,000	-2,000	-2,000	-5,000

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

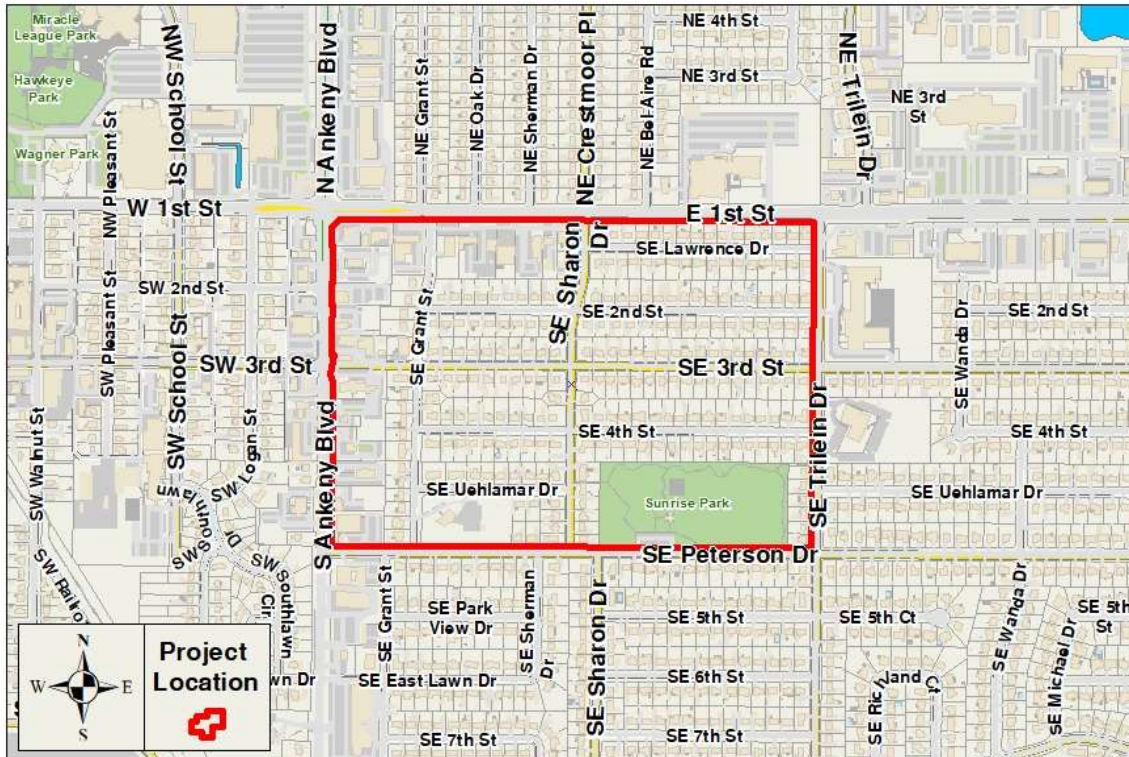
City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-20-006

Project Name SE 3rd Street Area Storm Sewer Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Storm Water

Project # STM-21-001

Project Name SE 3rd St Area Collection Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the SE 3rd Street area, which is located south of East 1st Street, north of SE Peterson Drive, east of South Ankeny Boulevard and west of SE Trilein Drive. The proposed storm sewer infrastructure improvements will include footing drain/sump collector lines, storm sewer pipe, and associated intakes, utility accesses and related pavement removal and replacement necessary to install collection storm sewer in the area. The proposed improvements schedule will include constructing new storm sewer along SE 4th Street from SE Grant Street to SE Sharon Drive and along SE Lawrence Drive from SE Sharon Drive to SE Trilein Drive in 2024. New storm sewer along SE Uehlamar 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	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	Total
Maintenance Costs					-1,000	-1,000
Total					-1,000	-1,000

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 design the extension of an existing storm sewer pipe outlet in the Westwinds neighborhood, so the storm sewer outlets near the bottom of the drainage channel.

Justification

The purpose of the project is to extend an existing storm sewer pipe so the outlet is near the bottom of the drainage channel and repair the associated erosion.

Expenditures	2021	2022	2023	2024	2025	Total
Survey/Preliminary Analysis	50,000					50,000
Total	50,000					50,000
Funding Sources	2021	2022	2023	2024	2025	Total
Storm Water Fund	50,000					50,000
Total	50,000					50,000

Budget Impact/Other

The project will provide design engineering services only, so no operating impacts are being estimated at this time. In the long term, 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.

City of Ankeny, Iowa

2021 *thru* 2025

Department Storm Water Utility

Contact City Engineer

Project # **STM-21-002**

Project Name Westwinds Storm Sewer Extension



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 individual PCC street patches and associated intake top and curb ramp repairs throughout Ankeny. The patching projects that are bid annually from this program are designed and inspected in-house by Public Works Engineering Division staff. Patch locations are selected based on field conditions (rider comfort and pavement defects). Specific large-scale utility projects are also partially funded through this program. These include:

- I/3 NW North Lawn Area Utility Improvements (4 phases): 2021 - \$50,000 (engineering) and \$600,000 (construction); 2022 - \$40,000 (engineering) and \$460,000 (construction); 2023 - \$40,000 (engineering) and \$410,000 (construction); 2024 - \$20,000 (engineering) and \$430,000 (construction)
- I/3 Future neighborhood to be determined (multiple phases): 2023 - \$25,000 (survey & concept); 2024 - \$50,000 (Phase 1 engineering); 2025 - \$50,000 (Phase 2 engineering) and \$500,000 (Phase 1 construction)

Justification

The Annual PCC Street Patching Program addresses the most critical street defects. It is important to maintain the older streets as they deteriorate over time in order to extend their useful life. The size of the street patching project will vary annually based upon available funds remaining after accounting for the 1/3 cost-sharing on the large-scale utility and pavement replacement projects, but is assumed to be a constant \$500,000 per year for the next five years in the table below.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	50,000	40,000	65,000	70,000	50,000	275,000
Construction Costs	1,100,000	960,000	910,000	930,000	1,000,000	4,900,000
Total	1,150,000	1,000,000	975,000	1,000,000	1,050,000	5,175,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	1,150,000	1,000,000	975,000	1,000,000	1,050,000	5,175,000
Total	1,150,000	1,000,000	975,000	1,000,000	1,050,000	5,175,000

Budget Impact/Other

The utility and pavement improvement projects will replace existing sanitary sewers, water mains, and pavement infrastructure and add new storm sewer 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 preventative maintenance (e.g. cold patching) on the existing pavements.

Budget Items	2021	2022	2023	2024	2025	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

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # STR-00-001

Project Name Annual PCC Street Patching Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 generally has focused on the HMA overlay of old County rural roadways that are now within the City of Ankeny corporate limits. These projects are typically designed and construction administered in-house by Engineering Division staff.

The specific projects for 2021 include:

- Lakeside Center Parking Lot and Access Drive - HMA Overlay (\$200,000 construction)
- SE Corporate Woods Drive/County NE 66th Avenue from SE Delaware Avenue west approximately 2,000 ft. to City limits - HMA overlay (\$45,000 cost share with Polk County)

Potential specific projects for 2022:

- SW Goodwin Street - HMA Paving (\$110,000 construction)
- SE Corporate Woods Drive/County NE 62nd Avenue from SE Four Mile Drive east to City limits - HMA overlay (\$40,000 cost share with Polk County)

Potential future projects:

- SW Ordinance Road from SW State Street to South Ankeny Boulevard – HMA overlay & shoulder inlay
- 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
- Public alleyways between SW Cherry Street and SW Walnut Street, from W 1st Street to SW 3rd Street - HMA overlay

Justification

Significant progress has been made on overlaying 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 eliminating existing gravel streets and shoulders.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	245,000	150,000	150,000	150,000	150,000	845,000
Total	245,000	150,000	150,000	150,000	150,000	845,000
Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	45,000					45,000
G.O. Bonds	200,000	150,000	150,000	150,000	150,000	800,000
Total	245,000	150,000	150,000	150,000	150,000	845,000

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	2021	2022	2023	2024	2025	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

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-002

Project Name Annual Asphalt Street Resurfacing Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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.

2021: The pavement preservation work consists of cleaning, sawing and sealing existing joints and cracks.

2022-2025: The pavement preservation work consists of: (1) cleaning, sawing and sealing existing joints and cracks, and/or (2) partial depth repair 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 will complete the design and administer construction for this program. In 2021, the allocation will be used for joint and crack sealing, while in future years, it will be used for joint and crack sealing, partial depth repair or a combination of these two measures. These preventative maintenance measures are the primary and most economical means of extending the useful life of the City's streets, thereby reducing the need for more expensive methods such as full depth patching and complete reconstruction.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	250,000	250,000	250,000	250,000	250,000	1,250,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	250,000	250,000	250,000	250,000	250,000	1,250,000
Total	250,000	250,000	250,000	250,000	250,000	1,250,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs	-5,000	-7,000	-8,000	-10,000	-11,000	-41,000
Total	-5,000	-7,000	-8,000	-10,000	-11,000	-41,000

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # STR-00-003

Project Name Annual Pavement Preservation Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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.

- 2021: SE 8th Street, South Ankeny Boulevard to SE Oak Drive – \$1,025,000 (construct + construction admin)
- 2022: SE Peachtree Drive, SE Aster Court to SE Oralabor Road – \$400,000 (construct); SE 8th Street, SE Rio Circle to SE Wanda Drive – \$425,000 (construct)
- 2023-2025: NW 5th Street, NW Greenwood Street to Applewood Street – \$675,000 (construct); TBD (Proposed at \$1,150,000 to \$1,250,000 each year)

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. The estimated construction cost for the SE 8th Street, South Ankeny Boulevard to SE Oak Drive, project in 2021 includes an estimated \$150,000 of water utility-related work.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	25,000					25,000
Construction Costs	1,000,000	825,000	1,150,000	1,200,000	1,250,000	5,425,000
Total	1,025,000	825,000	1,150,000	1,200,000	1,250,000	5,450,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund		400,000				400,000
G.O. Bonds		305,000	1,150,000	1,200,000	1,250,000	3,905,000
Road Use Tax Fund	1,025,000	120,000				1,145,000
Total	1,025,000	825,000	1,150,000	1,200,000	1,250,000	5,450,000

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. The 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	2021	2022	2023	2024	2025	Total
Maintenance Costs	-10,000	-15,000	-20,000	-25,000	-30,000	-100,000
Total	-10,000	-15,000	-20,000	-25,000	-30,000	-100,000

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # STR-00-004

Project Name Annual Street Replacement Program



city of
Ankeny

bringing it all together

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # **STR-11-004**

Project Name E 1st Street and I-35 Interchange Reconstruction

Description

Reconstruction of the East 1st Street and Interstate 35 interchange into a diverging diamond and the widening of Interstate 35 to a 6-lane section between East 1st Street and NE 36th Street. The Iowa DOT is funding the majority of the costs associated with the interchange reconstruction and interstate widening. Construction of the third and final phase of this multi-year project is expected to be completed in late 2020.

Justification

The Iowa DOT and the City of Ankeny previously agreed that the City will fund \$2 million of the approximately \$60 million construction project, payable in three equal installments in 2019, 2020 and 2021. In addition, the City is responsible for the Division 2 items which include a 16" diameter water transmission main along East 1st Street in 2019 and 2020, as recommended by the Water Storage and Distribution System Study and Master Plan; a joint utility trench that will encase the fiber optic conduit along East 1st Street in 2020; and street lighting along East 1st Street in 2020. The design services were previously budgeted for and have been completed. The Iowa DOT is responsible for the construction administration and observation services.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	666,667					666,667
Total	666,667					666,667

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	666,667					666,667
Total	666,667					666,667

Budget Impact/Other

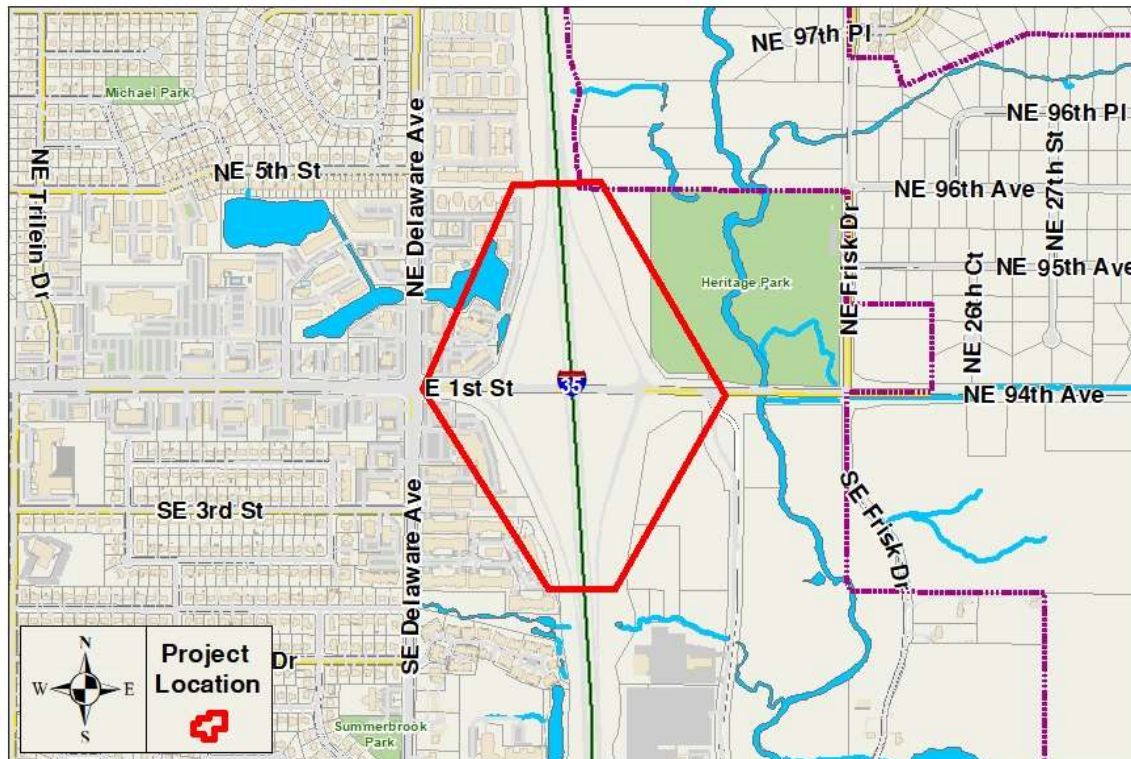
The reconstruction of the existing diamond interchange into a new diverging diamond interchange will result in a net increase to the number of traffic signals at this location. The reconstruction of East 1st Street will result in an increase to the lane miles and will add annual maintenance costs for the City's Public Works Department. Only the East 1st Street portion of the interchange is the City's responsibility to maintain; the ramps and the additional lane widening along Interstate 35 are the Iowa DOT's responsibility. The additional water main infrastructure will add annual maintenance costs for the City's Municipal Utilities Department in the long term. The additional traffic signals, fiber optic, and street lights will result in additional electric power costs for the City.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs	2,500	2,500	2,500	2,500	2,500	12,500
Utilities	5,500	5,500	5,500	5,500	5,500	27,500
Total	8,000	8,000	8,000	8,000	8,000	40,000

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

Project #	STR-11-004
Project Name	E 1st Street and I-35 Interchange Reconstruction



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 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 NE 5th Street to 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 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 the survey and preliminary design in 2021, the property acquisitions and final design in 2022 and landscaping improvements in 2025. Federal STBG-Swap funding in the amount of \$2,000,000 has been obtained through the Des Moines Area MPO.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	250,000	650,000				900,000
Engineering-Construction Services			250,000	350,000	25,000	625,000
Construction Costs			3,675,000	4,875,000	100,000	8,650,000
Street Lighting			100,000	100,000		200,000
Land/ROW Acquisition		125,000				125,000
Total	250,000	775,000	4,025,000	5,325,000	125,000	10,500,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund		775,000	2,225,000			3,000,000
G.O. Bonds	250,000		800,000	3,625,000	125,000	4,800,000
MPO/STBG Grants			1,000,000	1,700,000		2,700,000
Total	250,000	775,000	4,025,000	5,325,000	125,000	10,500,000

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 street lights will result in additional electric power costs for the City.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs				1,500	3,500	5,000
Utilities				2,500	4,500	7,000
Total				4,000	8,000	12,000

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-14-006

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-002

Project Name NW 18th Street Extension-Weigel to Spruce

Description

Extension of NW 18th Street from NW Weigel Drive west approximately 3,800 LF to NW Spruce Drive. The current gravel road with rural ditch section will be replaced with a 41-ft. wide concrete street with 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 in conduit, landscaping/street trees and signing. The construction cost estimate includes approximately \$1,325,000 for the sanitary sewer improvements and \$350,000 for the water main improvements.

Justification

These street and public utility extensions will improve traffic mobility and support the current and anticipated future development in the northwest quadrant of Ankeny. In the future after this project is completed, the plan is to extend NW 18th Street from NW Spruce Drive west to IA Highway 415.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	425,000					425,000
Construction Costs	5,350,000					5,350,000
Street Lighting	125,000					125,000
Total	5,900,000					5,900,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	2,000,000					2,000,000
G.O. Bonds	2,486,000					2,486,000
Private Contributions	300,000					300,000
Special Assessments	1,114,000					1,114,000
Total	5,900,000					5,900,000

Budget Impact/Other

Replacing the existing gravel street with a new concrete street will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel for drivability and drainage reasons. The added 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance 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.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs		-11,500	-11,500	-11,500	-11,500	-46,000
Utilities		2,500	2,500	2,500	2,500	10,000
Total		-9,000	-9,000	-9,000	-9,000	-36,000

2021 - 2025 Capital Improvement Program

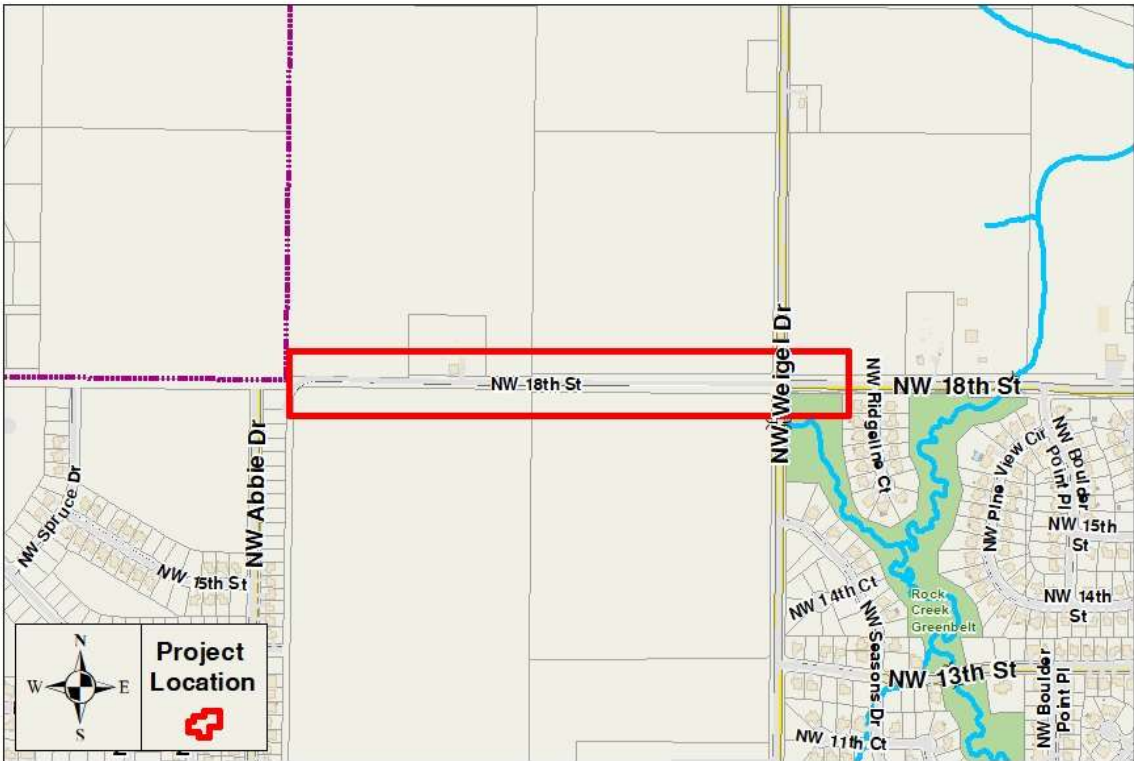
City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # STR-16-002
Project Name NW 18th Street Extension-Weigel to Spruce



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

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

Description

This project includes reconstructing the SW Oralabor Road/IA Highway 415 and SW Irvinedale Drive intersection. This project includes a traffic study and surveying in 2024, engineering design in 2025 and construction and engineering construction services in 2026. The majority of the construction associated with this project is paving and traffic signal improvements. Since SW Oralabor Road/IA 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 mobility and safety at this intersection of arterial streets. This project will replace the aging traffic signal equipment and modify the configuration of the traffic lanes to achieve better traffic operations and mobility and improve safety at the intersection.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design				75,000	325,000	400,000
Total				75,000	325,000	400,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds				75,000	325,000	400,000
Total				75,000	325,000	400,000

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/IA Highway 415.

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # **STR-16-003**

Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 will be removed and replaced with a five-lane street that includes a center two-way left turn lane. Additional improvements include public utility improvements, 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 is considered the first of two phases that will reconstruct West 1st Street from just east of NW/SW State Street to just west of N/S Ankeny Boulevard. 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 will approach the end of its useful life by 2020. 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 and the time constraints necessitated by maintaining traffic flowing in the vicinity of Parkview Middle School. The project is planned for 2021 and 2022 construction. 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 \$225,000 of sanitary sewer improvements and \$325,000 of water main improvements.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	475,000	350,000				825,000
Construction Costs	3,200,000	2,825,000				6,025,000
Street Lighting		140,000				140,000
Total	3,675,000	3,315,000				6,990,000

Funding Sources	2021	2022	2023	2024	2025	Total
FHWA/IDOT Grants	250,000	250,000				500,000
G.O. Bonds - TIF Abated	2,160,000	1,800,000				3,960,000
MPO/STBG Grants	1,265,000	1,265,000				2,530,000
Total	3,675,000	3,315,000				6,990,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs		500	1,000	1,000	1,000	3,500
Utilities			3,000	3,000	3,000	9,000
Total		500	4,000	4,000	4,000	12,500

City of Ankeny, Iowa

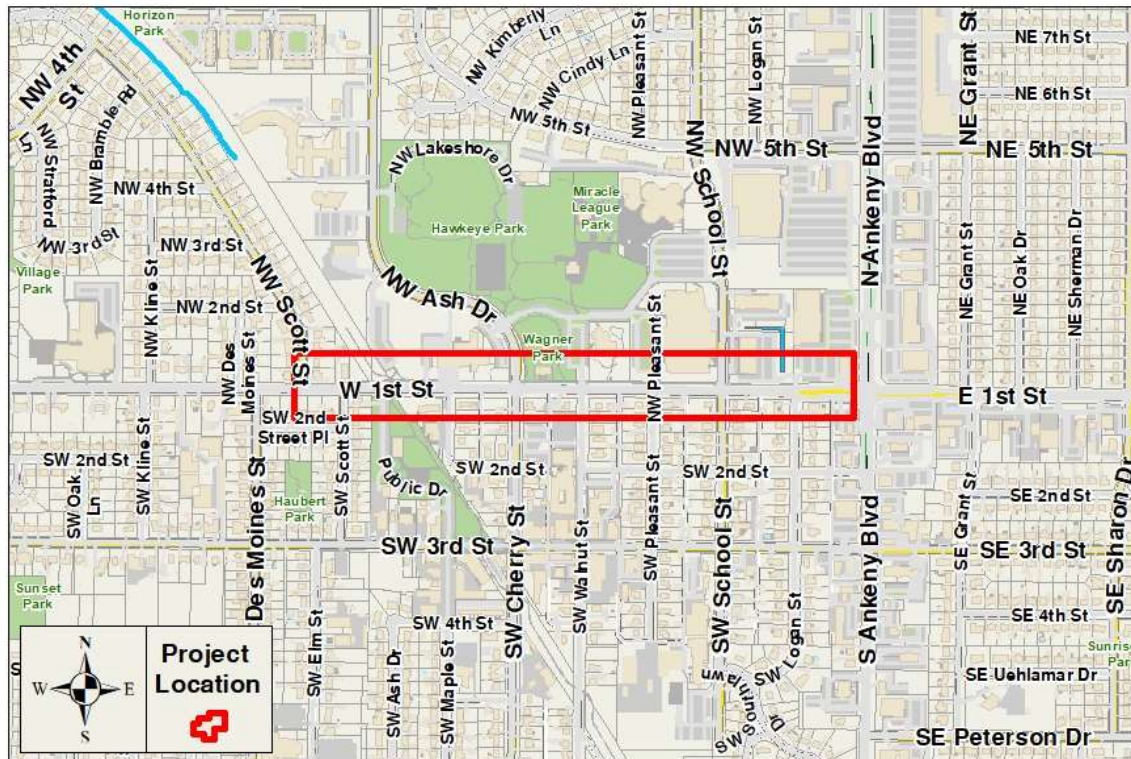
2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # **STR-16-004**

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 Impr

Description

Remove existing landscaping in the medians on North Ankeny Boulevard/US Highway 69 from north of 1st Street to 18th Street and replace with turf grass 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 Planning process 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 10/16/17. 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 2023 and the landscaping and irrigation improvements will be constructed in 2024.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design		60,000				60,000
Engineering-Construction Services			65,000	15,000		80,000
Construction Costs			990,000	315,000		1,305,000
Total		60,000	1,055,000	330,000		1,445,000

Funding Sources	2021	2022	2023	2024	2025	Total
FHWA/IDOT Grants			100,000			100,000
G.O. Bonds		30,000	477,500	165,000		672,500
Hotel/Motel Tax Fund		30,000	477,500	165,000		672,500
Total		60,000	1,055,000	330,000		1,445,000

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.

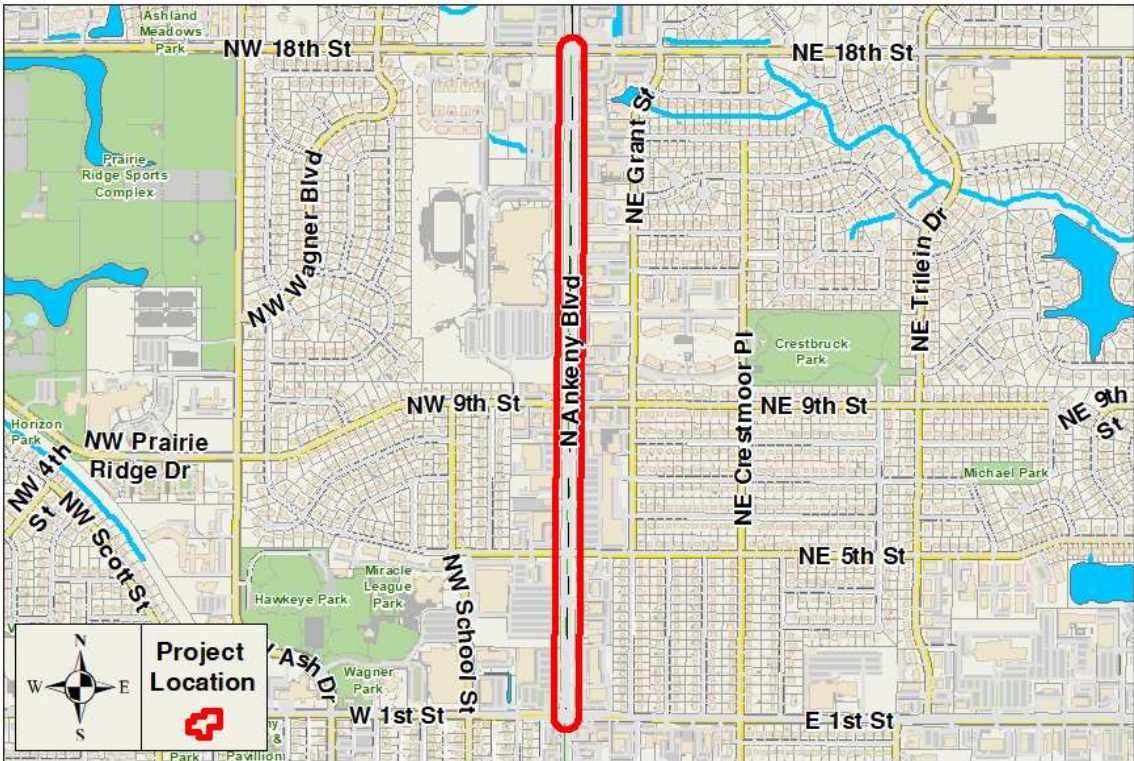
Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs					1,500	1,500
Utilities					1,000	1,000
Total					2,500	2,500

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

The reconstruction of NW 36th Street, an existing two-lane rural roadway, from NW Irvinedale Drive to NW Abilene Road. The project includes the removal of the existing asphalt roadway and construction of a two-lane PCC urban street that will serve as the eastbound lanes when this future four-lane divided street is constructed. 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 pending future 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 conceptual design are planned for 2023, preliminary and final design along with right-of-way acquisition are planned for 2024, and construction is planned for 2025 and 2026, with landscaping planned for 2027.

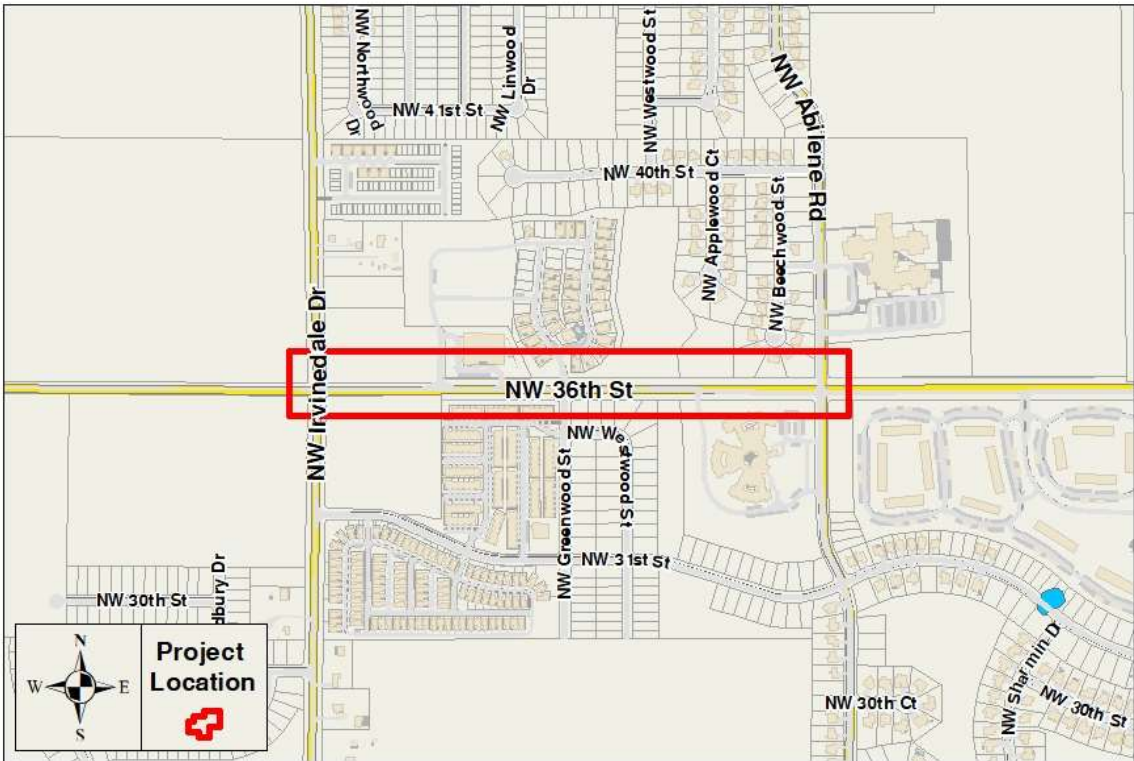
Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design			75,000	450,000		525,000
Engineering-Construction Services					162,000	162,000
Construction Costs					2,213,000	2,213,000
Street Lighting					75,000	75,000
Land/ROW Acquisition				25,000		25,000
Total			75,000	475,000	2,450,000	3,000,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds			75,000	475,000	2,450,000	3,000,000
Total			75,000	475,000	2,450,000	3,000,000

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.

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 IA 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 IA 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 IA Highway 415, and northbound and southbound turn lanes from IA Highway 415 onto NW 18th Street. Approximately \$1,575,000 of the estimated \$5,850,000 total construction cost is associated with the construction work on IA Highway 415. It is anticipated that the engineering and construction work on IA Highway 415 would be cost-shared with Polk County and the Iowa DOT.

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 IA Highway 415, is currently outside the existing City limits.

Expenditures	2021	2022	2023	2024	2025	Total
Survey/Preliminary Analysis					50,000	50,000
Total					50,000	50,000
Funding Sources	2021	2022	2023	2024	2025	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.

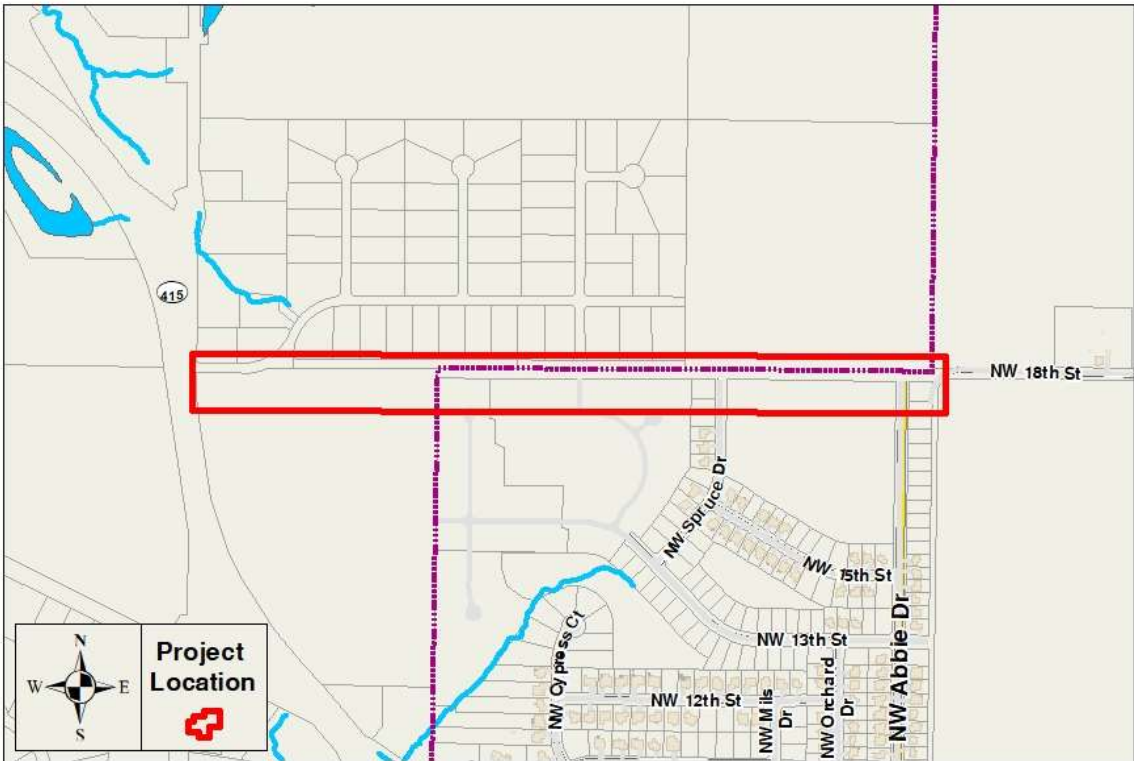
2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 a concept study, design and 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 only one 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, egress traffic has a difficult time exiting the parking lot because of the high traffic volumes in the parking lot and on NW 18th Street and due to the lack of a secondary access. This can also be a safety concern during severe weather events. Given the high usage of the PRSC, having an additional access for the north parking lot, specifically to another major street (e.g. NW State Street or NW Ash Drive), would be beneficial. An initial order of magnitude construction cost opinion for the access improvements is approximately \$600,000. The design and construction cost opinions would be updated during the concept study phase.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	100,000					100,000
Construction Costs		600,000				600,000
Planning Study	25,000					25,000
Total	125,000	600,000				725,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds		600,000				600,000
General Fund	125,000					125,000
Total	125,000	600,000				725,000

Budget Impact/Other

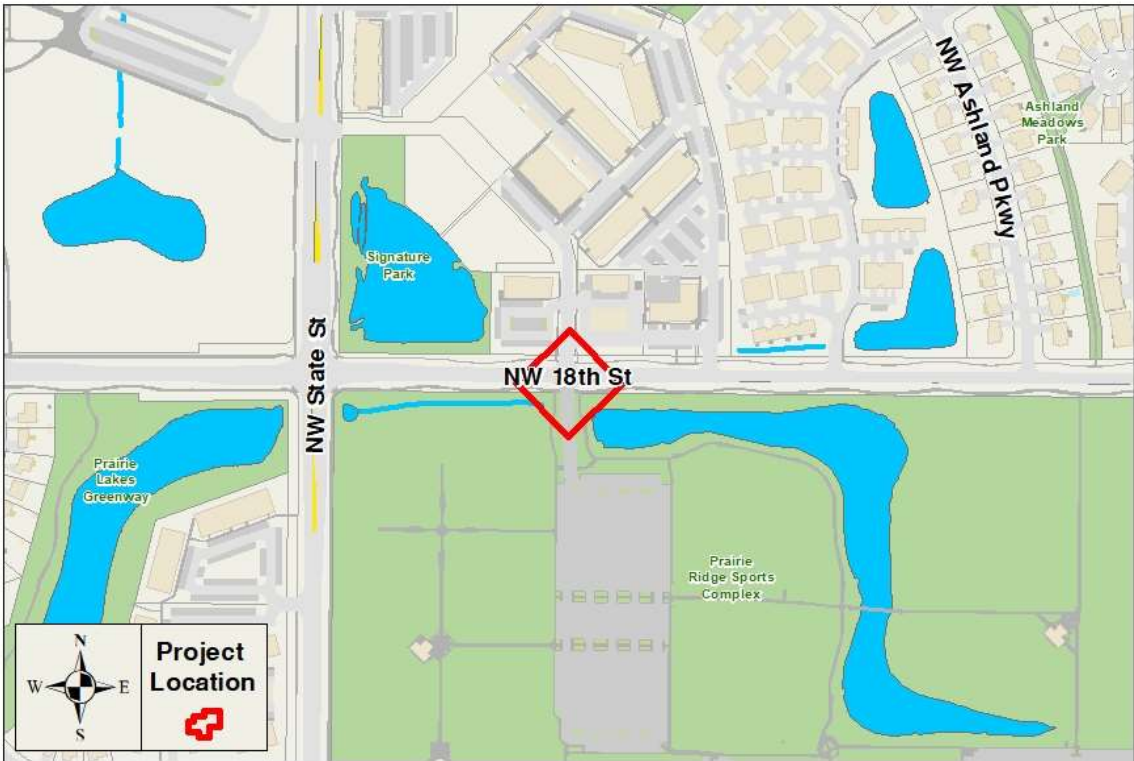
In the long-term, the additional pavement will add maintenance costs for the City's Parks & Recreation department.

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 26' wide and 8" thick HMA with 2' 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 off the roadway, reduce the maintenance associated with gravel roads and help support the existing and future development occurring in this area.

Expenditures	2021	2022	2023	2024	2025	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	2021	2022	2023	2024	2025	Total
G.O. Bonds				100,000	1,025,000	1,125,000
Total				100,000	1,025,000	1,125,000

Budget Impact/Other

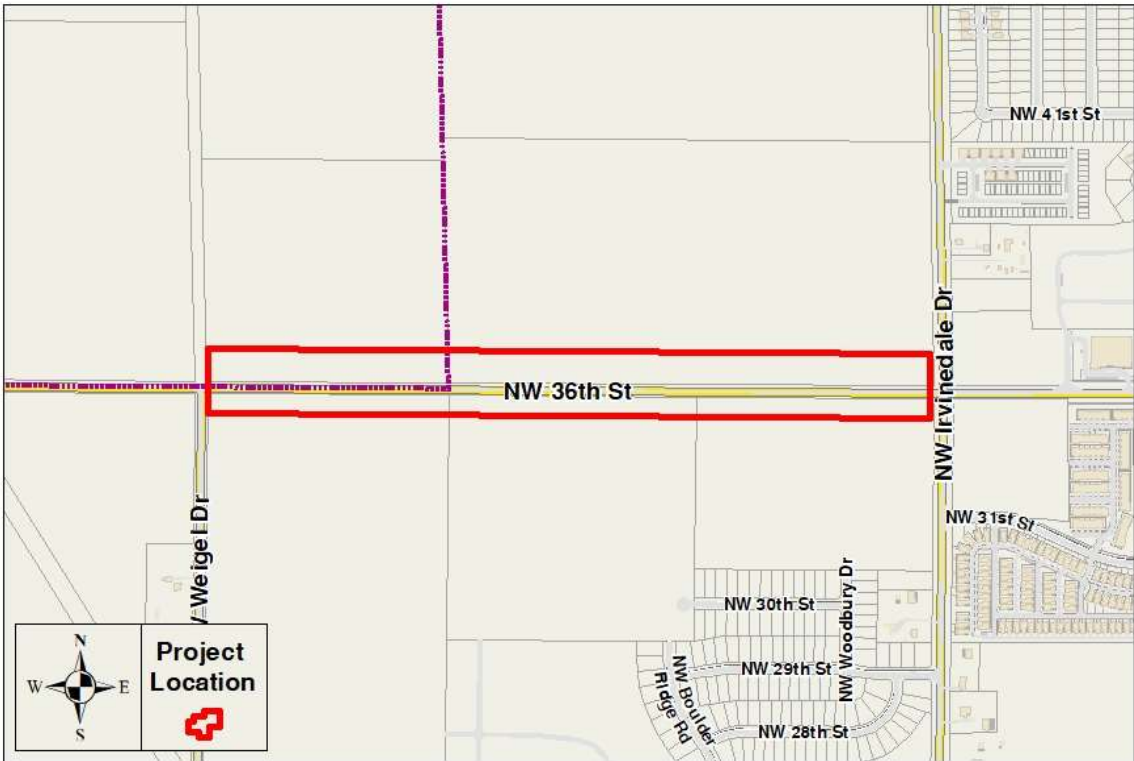
This project will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel roadway.

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 IA Highway 415, the project would be coordinated with the Iowa DOT.

Justification

The SW Oralabor Road/IA 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	2021	2022	2023	2024	2025	Total
Engineering-Design			25,000			25,000
Construction Costs			150,000			150,000
Total			175,000			175,000

Funding Sources	2021	2022	2023	2024	2025	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/IA Highway 415, so this project would not have an operating impact on the City.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

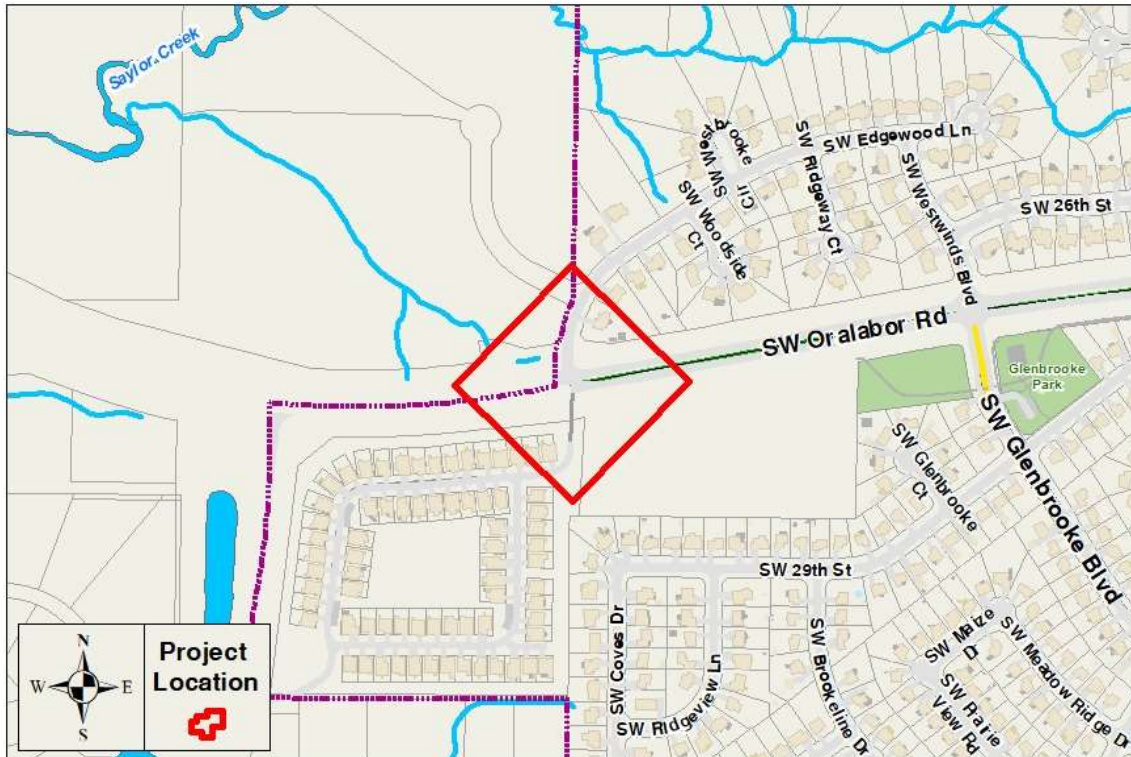
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-19-006

Project Name SW Orallabor Rd and SW Edgewood Ln Intersection



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-19-007

Project Name S Ankeny Blvd and Magazine Rd Safety Improvements

Description

The project will modify existing medians on South Ankeny Boulevard and Magazine Road to improve left-turning drivers' sightlines to on-coming opposing vehicles. The project also includes traffic signal and pedestrian ramp upgrades.

Justification

The South Ankeny Boulevard and Magazine Road intersection was listed in the 2018 Iowa Department of Transportation (DOT)'s Top 200 Safety Improvement Location Candidates at #8. The City's 2018 safety study identified a correctable left-turn crash history and recommended modifications to three existing medians, with implementation of flashing yellow arrow (FYA) left-turn treatments and pedestrian ramp upgrades for ADA compliance. Ankeny Boulevard is also US Highway 69, so the proposed improvements will be coordinated with the Iowa DOT. Traffic Safety Improvement Program (TSIP) funding was awarded in 2020 (\$239,000) and an Urban-State Traffic Engineering Program (U-STEP) request will also be submitted.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	45,000					45,000
Construction Costs	425,000					425,000
Total	470,000					470,000

Funding Sources	2021	2022	2023	2024	2025	Total
FHWA/IDOT Grants	340,000					340,000
G.O. Bonds	130,000					130,000
Total	470,000					470,000

Budget Impact/Other

The project will modify existing infrastructure, so the operating impact will be negligible.

Project #	STR-19-007
Project Name	S Ankeny Blvd and Magazine Rd Safety Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 Drive/SE 77th Street Impr-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	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	325,000					325,000
Construction Costs	2,255,000					2,255,000
Total	2,580,000					2,580,000

Funding Sources	2021	2022	2023	2024	2025	Total
FHWA/IDOT Grants	1,887,000					1,887,000
Private Contributions	693,000					693,000
Total	2,580,000					2,580,000

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	2021	2022	2023	2024	2025	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

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Public Works
Contact City Engineer

Project #	STR-19-008
Project Name	SE Crosswinds Drive/SE 77th Street Impr-Phase 2



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works
Contact City Engineer
Type Improvement
Useful Life 40 years
Category Streets and Alleys

Project #	STR-20-002
Project Name	NW 26th Street Widening

Description

Hot Mix Asphalt (HMA) widening of NW 26th Street to four lanes from just north of County NE 66th Avenue to just south of IA Highway 415/SW Oralabor Road.

Justification

Polk County is planning to widen NW 26th Street to four lanes from just north of County NE 66th Avenue to just south of IA Highway 415/SW Oralabor Road in 2021. The east one-half of the north approximately 900 feet of NW 26th Street is within the City, so Polk County will be requesting reimbursement from the City for the improvements in this area. Only the City's cost-share amount is shown in the estimated construction costs.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	250,000					250,000
Total	250,000					250,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	250,000					250,000
Total	250,000					250,000

Budget Impact/Other

Polk County provides the routine maintenance for the small portion of NW 26th Street that is within the City's limits, so this project would not have an operating impact on the City.

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works
Contact City Engineer

Project #	STR-20-002
Project Name	NW 26th Street Widening



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 traffic signal on span wires and the widening of NW 36th Street to accommodate dedicated left turn lanes.

Justification

The continued growth on the City's northwest side will likely require a traffic signal at the NW 36th Street and NW State Street intersection along with dedicated left turn lanes on NW 36th Street within the next few years. The proposed 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 at the intersection.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	50,000					50,000
Engineering-Construction Services		40,000				40,000
Construction Costs		425,000				425,000
Total	50,000	465,000				515,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	50,000	465,000				515,000
Total	50,000	465,000				515,000

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. Also, the new traffic signal will result in additional electric power costs to the City.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs				400	400	800
Utilities				300	300	600
Total				700	700	1,400

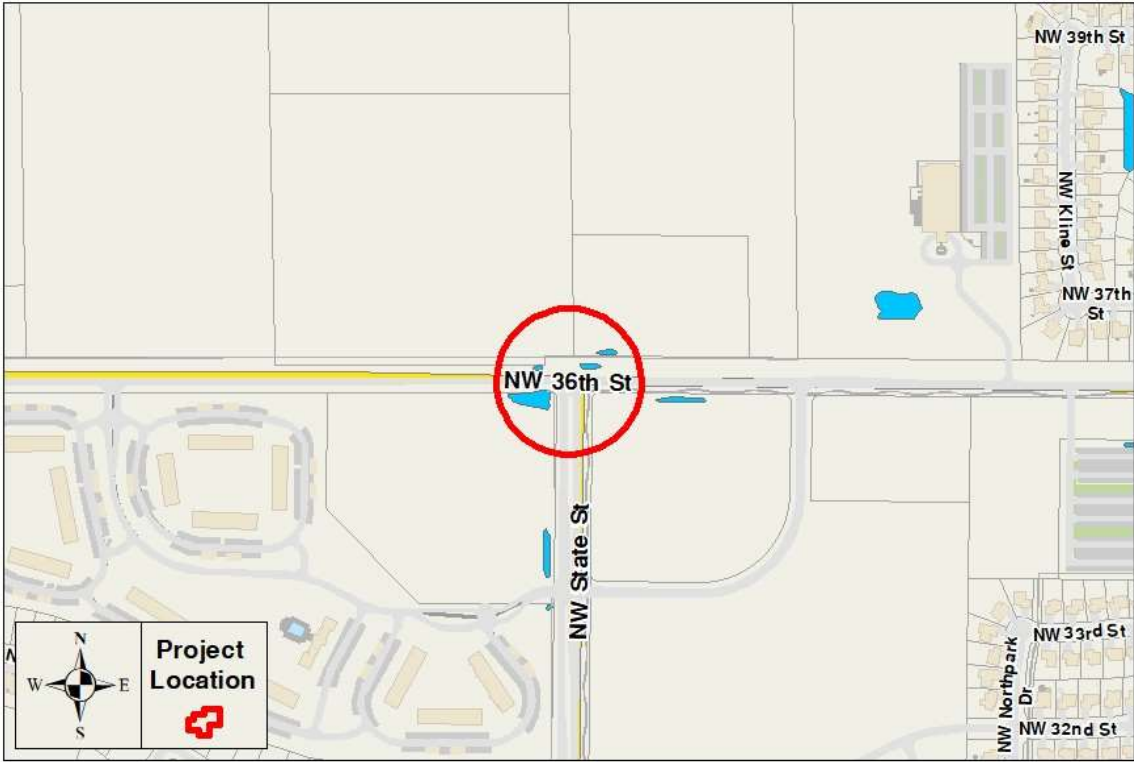
2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 east 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. 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	2021	2022	2023	2024	2025	Total
Engineering-Design	50,000	150,000				200,000
Engineering-Construction Services			125,000			125,000
Construction Costs			1,600,000			1,600,000
Total	50,000	150,000	1,725,000			1,925,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	50,000	150,000	1,725,000			1,925,000
Total	50,000	150,000	1,725,000			1,925,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs				-7,000	-7,000	-14,000
Total				-7,000	-7,000	-14,000

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

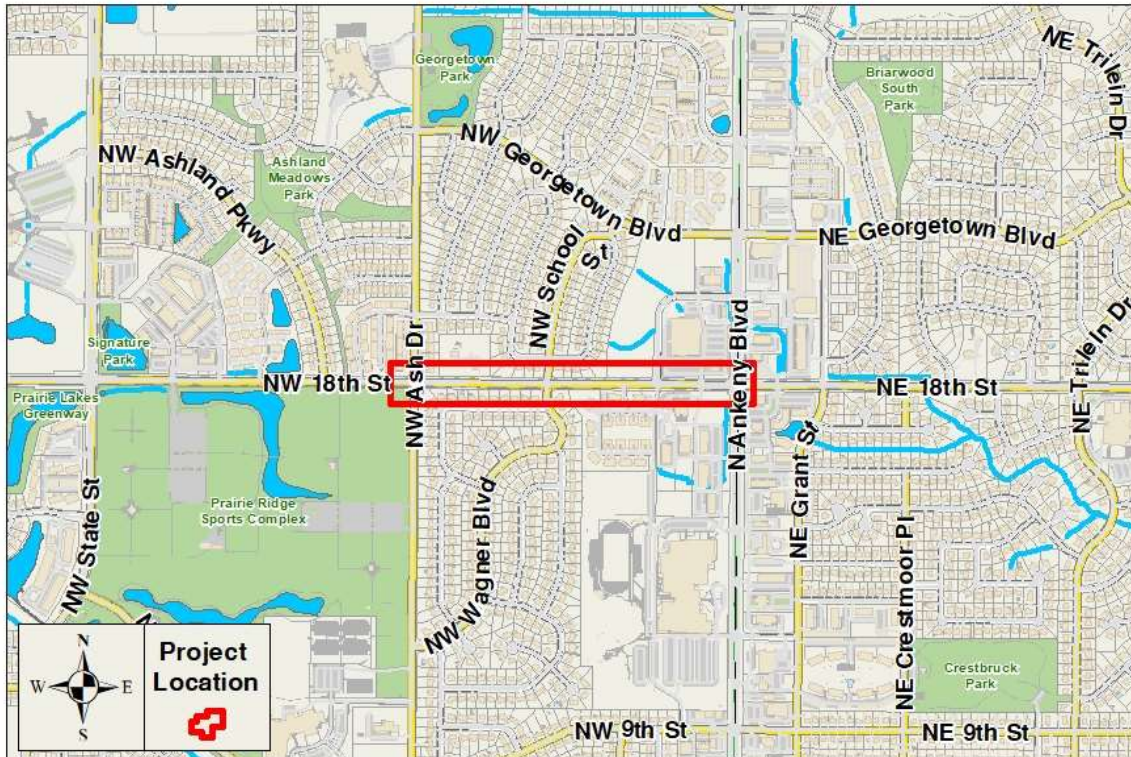
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-20-004

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 Phase 1, 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.

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 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 construction costs include approximately \$400,000 of water main improvements.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	325,000					325,000
Engineering-Construction Services		250,000				250,000
Construction Costs		3,650,000				3,650,000
Street Lighting		50,000				50,000
Land/ROW Acquisition	50,000					50,000
Total	375,000	3,950,000				4,325,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	375,000	3,950,000				4,325,000
Total	375,000	3,950,000				4,325,000

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 signal and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights and traffic signal will result in additional electric power costs for the City.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs			2,000	2,000	2,000	6,000
Utilities			1,300	1,300	1,300	3,900
Total			3,300	3,300	3,300	9,900

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

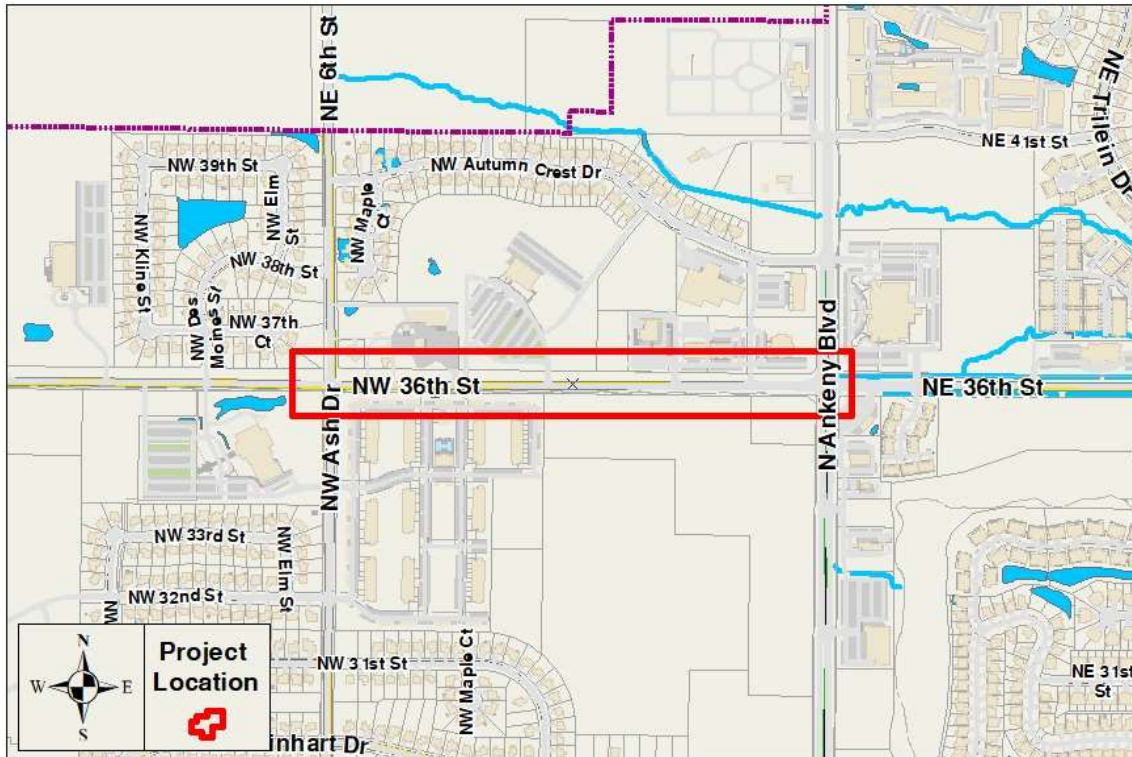
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-20-005

Project Name NW 36th Street Widening-Ash to Ankeny Blvd



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 1,600 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 and the south limits of the City's proposed project. Based on initial discussions with Polk County Public Works, it may be possible to include the City's project plans 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.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	100,000					100,000
Engineering-Construction Services		50,000				50,000
Construction Costs		825,000				825,000
Street Lighting		25,000				25,000
Total	100,000	900,000				1,000,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	100,000	900,000				1,000,000
Total	100,000	900,000				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	2021	2022	2023	2024	2025	Total
Maintenance Costs			500	500	500	1,500
Total			500	500	500	1,500

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-20-007

Project Name SE Delaware Ave and SE Corp Woods Dr Intersection

Description

The project will widen SE Delaware Avenue to provide a second thru-lane and a right-turn lane for northbound traffic, and widen SE Corporate Woods Drive to provide two eastbound lanes between SE Delaware Avenue and the I-35 and SE Corporate Woods Drive Interchange southbound on-ramp. The southbound left-turn lane on SE Delaware Avenue will also be re-stripped to provide dual turn lanes.

Justification

This project will relieve traffic congestion at the intersection and support the growth of commercial and industrial development along SE Delaware Avenue. The 2018 IOR identified an ultimate build-out for I-35 and SE Corporate Woods Interchange ramp modifications, which have not yet been programmed by the Iowa DOT, and further capacity improvements on SE Corporate Woods Drive, which are likely to be development-driven. This project serves immediate and interim traffic demands prior to those improvements. The street construction will primarily be in the southeast quadrant of the intersection, with striping and signage changes on the north leg, and relocation and/or replacement of two traffic signal poles.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	50,000					50,000
Construction Costs	500,000					500,000
Total	550,000					550,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds	550,000					550,000
Total	550,000					550,000

Budget Impact/Other

The added public street pavement will increase maintenance costs for the City's Public Works Department due to the additional winter maintenance and street sweeping that will be required. All other infrastructure modifications replace existing facilities, with negligible maintenance or operating impacts.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities		300	300	300	300	1,200
Total		300	300	300	300	1,200

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

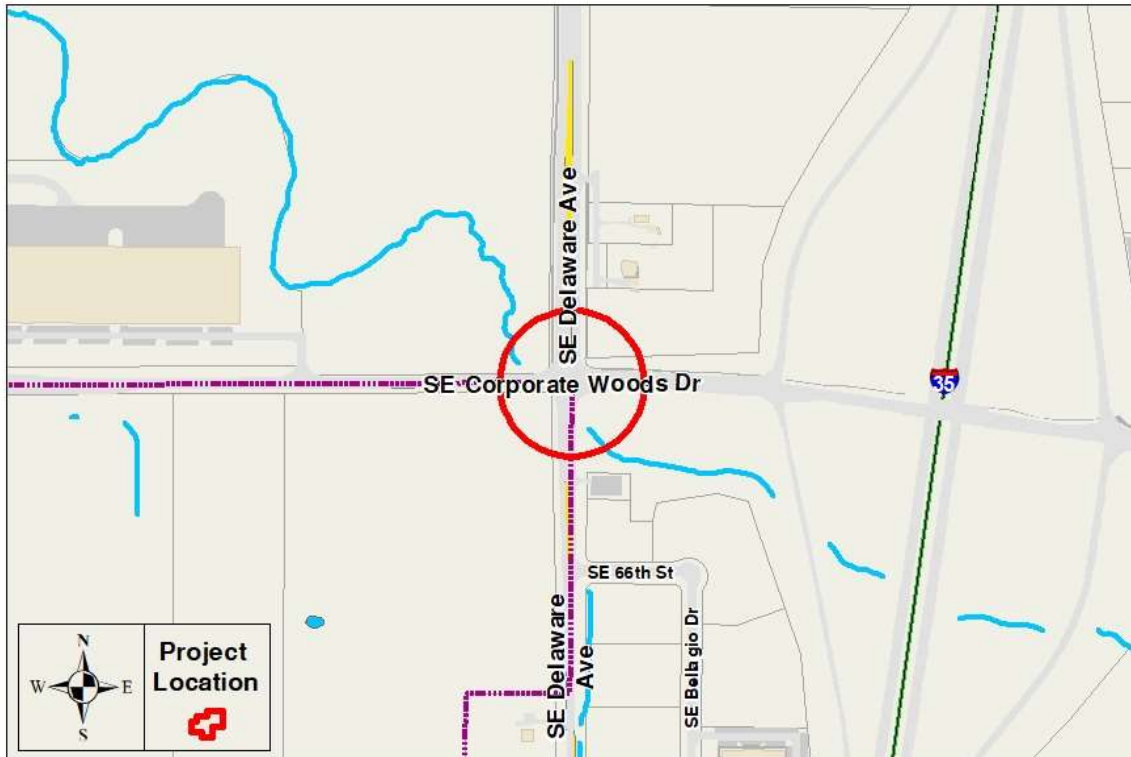
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-20-007

Project Name SE Delaware Ave and SE Corp Woods Dr Intersection



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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)'s Top 200 Safety Improvement Location Candidates at #6. The City's safety study found that the intersection is operating over 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 include 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 Highway 415 and 160, and Iowa DOT has reviewed the study and concurs with the recommendations. Funding applications were made to Iowa's Clean Air Attainment Program (ICAAP) and Traffic Safety Improvement Program (TSIP) in 2020 and will be made to Urban-State Traffic Engineering Program (U-STEP) in 2021.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	120,000	65,000				185,000
Engineering-Construction Services			160,000			160,000
Construction Costs			1,850,000			1,850,000
Land/ROW Acquisition		75,000				75,000
Total	120,000	140,000	2,010,000			2,270,000
Funding Sources	2021	2022	2023	2024	2025	Total
FHWA/IDOT Grants			1,000,000			1,000,000
G.O. Bonds	120,000	140,000	1,010,000			1,270,000
Total	120,000	140,000	2,010,000			2,270,000

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 Highway 415 and 160, so they would be responsible for maintaining the additional public street pavement at the intersection's south, west and east approaches.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs				250	250	500
Total				250	250	500

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

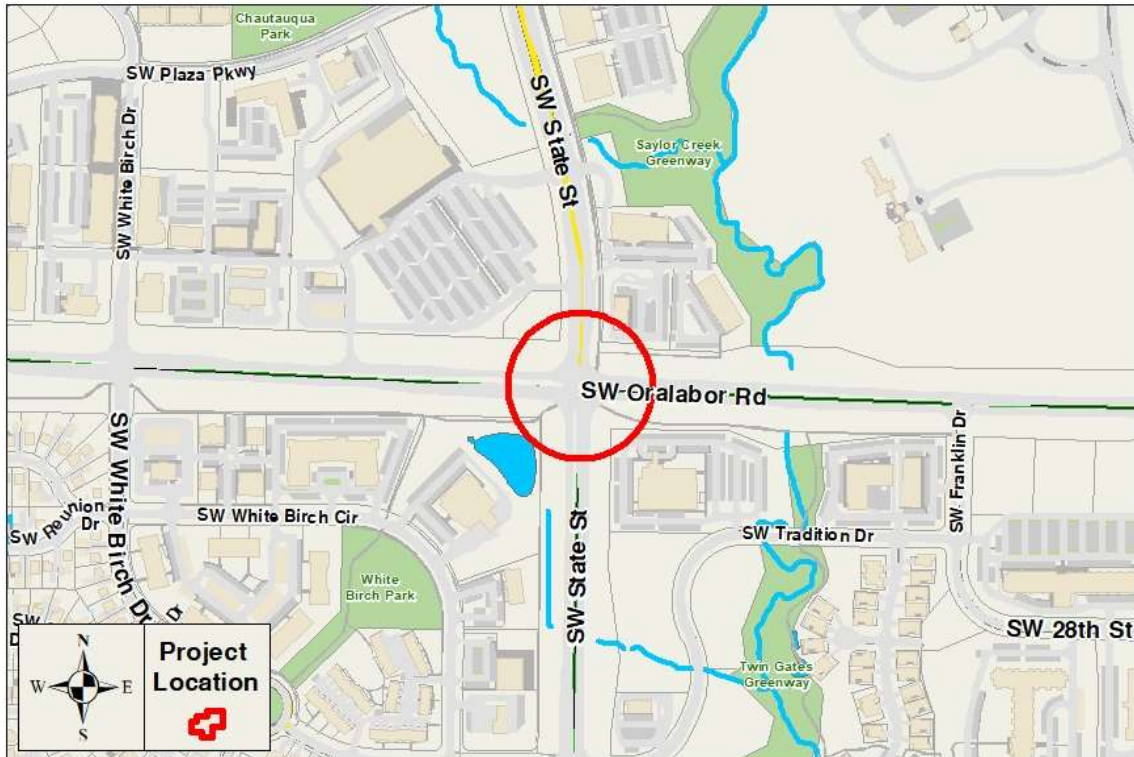
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-20-008

Project Name SW Oralabor Rd and SW State St Safety Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

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' south of West 1st Street. This project includes removal and replacement of the existing pavement structure along with subgrade and subbase improvements. This project also includes consultant 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	2021	2022	2023	2024	2025	Total
Engineering-Design		75,000				75,000
Engineering-Construction Services			100,000			100,000
Construction Costs			1,275,000			1,275,000
Total		75,000	1,375,000			1,450,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds		75,000	1,375,000			1,450,000
Total		75,000	1,375,000			1,450,000

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	2021	2022	2023	2024	2025	Total
Maintenance Costs				-5,500	-5,500	-11,000
Total				-5,500	-5,500	-11,000

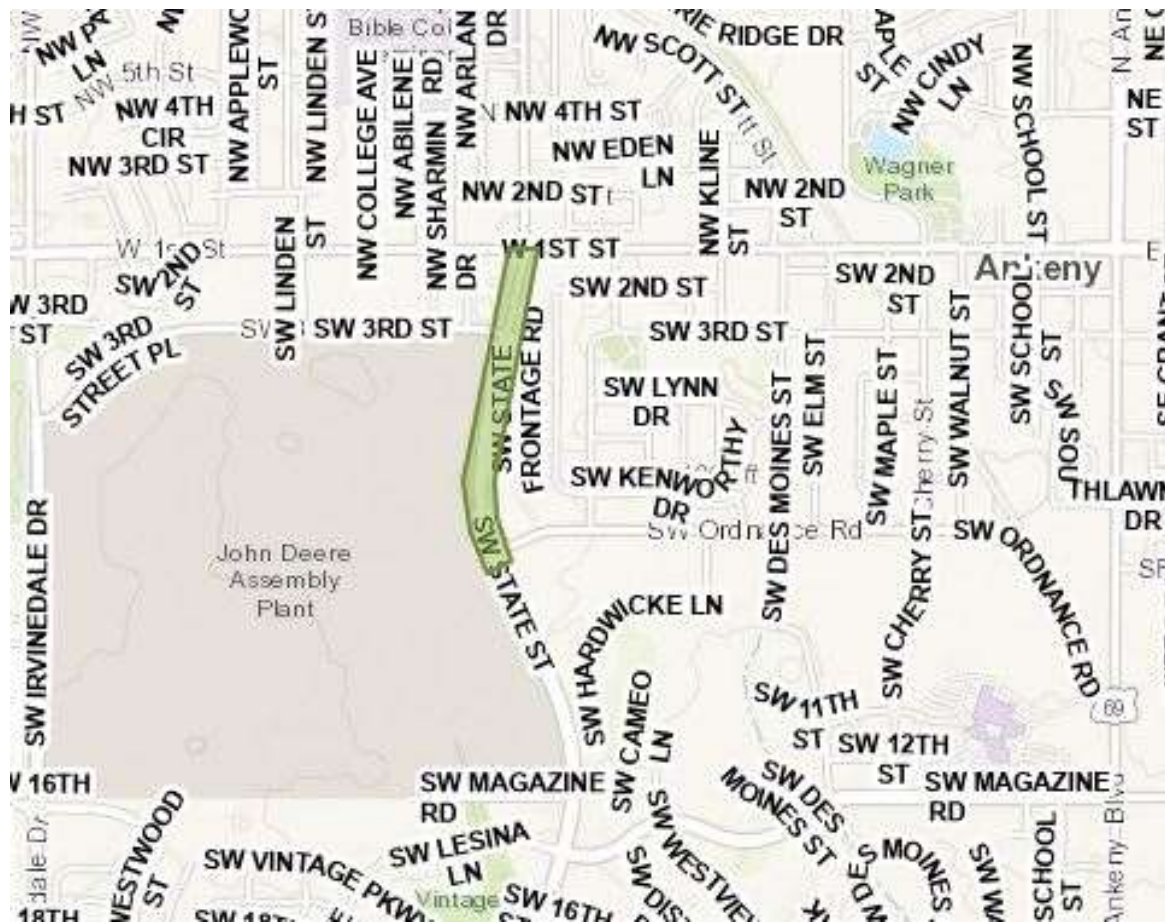
2021 - 2025 Capital Improvement Program

2021 thru 2025

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project # STR-21-002

Project Name NE 18th Street Overlay-Meadow View to 38th St

Description

This project involves Hot Mix Asphalt (HMA) paving on NE 18th Street from NE Meadow Court to County NE 38th Street. This section of NE 18th Street is an existing gravel roadway and the proposed surface would be 24' wide and 5" thick HMA with 3' wide granular shoulders.

Justification

This project will improve the driving surface of the existing gravel roadway, reduce the amount of dust coming off the road, reduce the on-going maintenance associated with the gravel road and help support the existing and future development occurring in this area. The Polk County Public Works Department is proposing to include this project in their 2021 Annual HMA program and they have asked the City to cost-share since NE 18th Street/County NE 102nd Avenue is a joint jurisdictional road. It is estimated that the City's portion of the construction cost would be approximately \$150,000. Polk County Public Works would be responsible for designing the project and the construction administration and inspection.

Expenditures	2021	2022	2023	2024	2025	Total
Construction Costs	150,000					150,000
Total	150,000					150,000

Funding Sources	2021	2022	2023	2024	2025	Total
Road Use Tax Fund	150,000					150,000
Total	150,000					150,000

Budget Impact/Other

Replacing the existing gravel roadway with a new asphalt street will reduce the annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel surface for drivability and dust control reasons.

Budget Items	2021	2022	2023	2024	2025	Total
Maintenance Costs		-7,500	-7,500	-7,500	-7,500	-30,000
Total		-7,500	-7,500	-7,500	-7,500	-30,000

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # **STR-21-002**

Project Name NE 18th Street Overlay-Meadow View to 38th St



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 at times 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 likely require improving the NW Irvinedale Drive and NW 18th Street intersection within the next several years.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design			50,000	325,000		375,000
Engineering-Construction Services					250,000	250,000
Construction Costs					2,550,000	2,550,000
Street Lighting					100,000	100,000
Total			50,000	325,000	2,900,000	3,275,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds			50,000	325,000	2,900,000	3,275,000
Total			50,000	325,000	2,900,000	3,275,000

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.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-21-004

Project Name NW Irvinedale Dr and NW 18th St Intersection



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 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

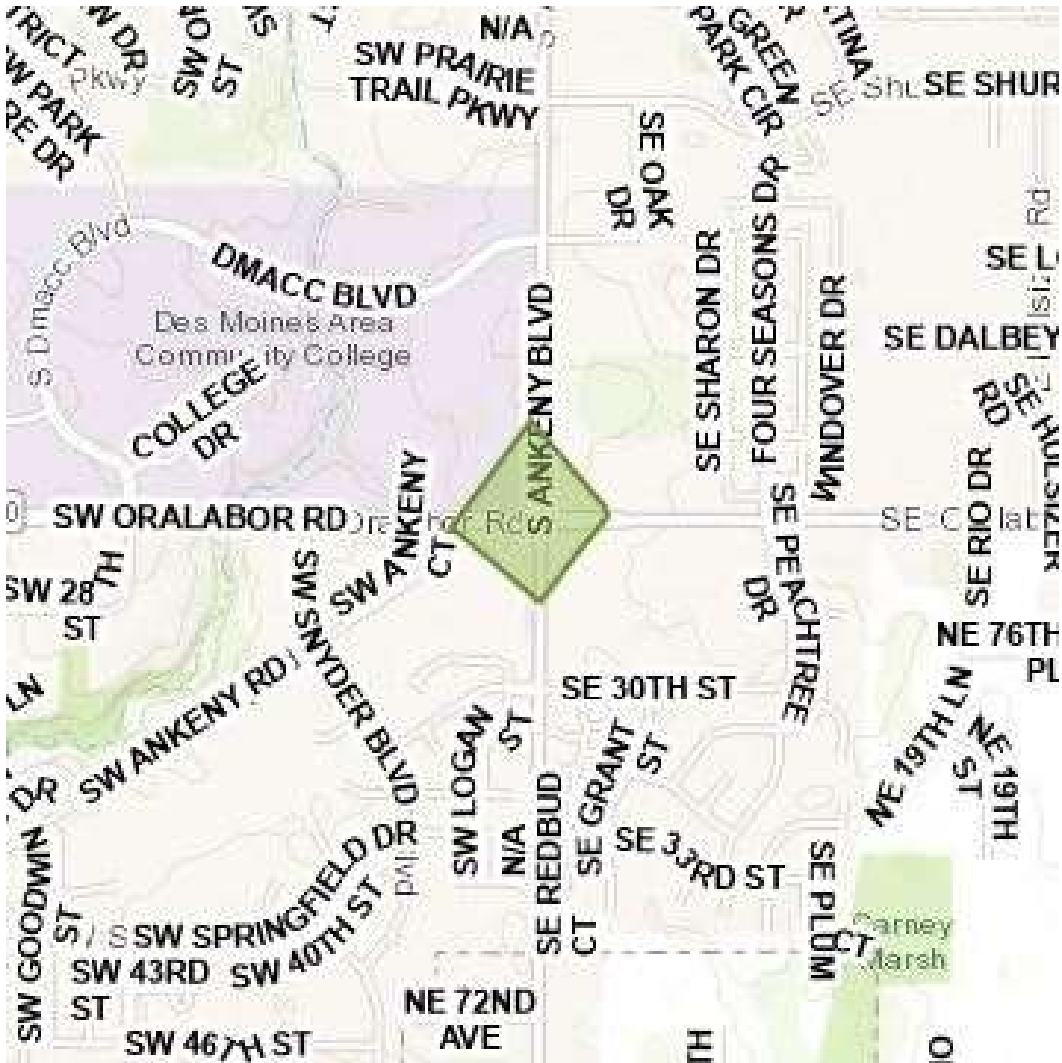
The South Ankeny Boulevard and SE Oralabor Road intersection was listed in the Iowa Department of Transportation (DOT)'s Top 200 Safety Improvement Location Candidates in recent consecutive years. The City's safety study in 2020 found that the intersection is operating over capacity during peak periods 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 include a right-turn lane, two thru-lanes and dual left-turn lanes on all approaches. These roads are joint jurisdictional with the Iowa DOT as US Highway 69 and Iowa Highway 160, and Iowa DOT is currently reviewing the safety study. Funding applications to Iowa's Clean Air Attainment Program (ICAAP, planned in 2021) and Traffic Safety Improvement Program (TSIP) and Urban-State Traffic Engineering Program (U-STEP) are anticipated.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design			10,000	175,000	75,000	260,000
Land/ROW Acquisition					160,000	160,000
Total			10,000	175,000	235,000	420,000
Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds				175,000	235,000	410,000
Road Use Tax Fund			10,000			10,000
Total			10,000	175,000	235,000	420,000

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 may be reduced with use of low-voltage equipment.

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Streets and Alleys

Project # STR-21-006

Project Name Uptown Parking Improvements

Description

The City has contracted with MSA to complete a parking analysis that will include recommendations to improve parking conditions and parking availability in Uptown.

Justification

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 study currently underway will identify where additional parking stalls can be added within existing City right-of-way, as well as potential changes to signage and city ordinances. Parking supports the entire district and any proposed infrastructure improvements would likely be TIF funded projects.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design		50,000				50,000
Construction Costs		250,000				250,000
Total		300,000				300,000

Funding Sources	2021	2022	2023	2024	2025	Total
G.O. Bonds - TIF Abated		300,000				300,000
Total		300,000				300,000

Budget Impact/Other

TBD – depends on proposed parking improvements.

2021 - 2025 Capital Improvement Program

2021 thru 2025

City of Ankeny, Iowa

Department Public Works
Contact City Engineer

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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):

2021 – SE Delaware Avenue & SE 8th Street (left-turn lanes, traffic signal) - \$1,065,000

2021 – North Ankeny Boulevard & NE 54th Street/County NE 118th Avenue (left-turn lanes & traffic signal) cost share with Iowa DOT, Polk County and City - \$150,000

2021 – Cost sharing for traffic signal improvements related to private development project, SE Corporate Woods Drive & SE Convenience Boulevard - \$175,000 for traffic signal and \$25,000 for north leg modifications

2021 – Cost sharing for traffic signal improvements related to private development project, NE 36th Street & NE Otterview Circle - \$150,000 for traffic signal

2022 – North Ankeny Boulevard Fiber Optic Upgrade from 1st Street to 18th Street - \$180,000 (construction & materials) and \$15,000 (survey & inspection)

2022 – SE Quadrant Fiber Optic Upgrade, Phase 1 (PW Traffic Signal Shop to Hub Cabinet at Gay Lea Wilson Trail) - \$20,000 (design), \$150,000 (construction) and \$5,000 (survey & construction assistance)

2021 – Replace vehicle detection at South Ankeny Boulevard & SE 8th Street; and provide wireless communication to new signal at North Ankeny Boulevard & NE 54th Street - \$40,000 (total)

2022 – SW Quadrant Fiber Optic Upgrade, Phase 1 (SW State Street between Magazine Road & 1st Street) - \$20,000 (design), \$150,000 (construction & materials), \$5,000 (survey & construction assistance)

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

Justification

In 2020, the City activated its 80th electronic traffic control device, including 9 speed zone or emergency beacons, 3 pedestrian beacons and 68 traffic signals. 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, although 2020 traffic counts and observations were delayed by COVID-19 impacts to traffic conditions. There is potential to obtain federal and/or state funding for signals proposed at intersections with state highways.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	100,000	50,000	100,000	100,000	100,000	450,000
Construction Costs	1,465,000	575,000	490,000	490,000	490,000	3,510,000
Total	1,565,000	625,000	590,000	590,000	590,000	3,960,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	50,000					50,000
G.O. Bonds	1,015,000	625,000	590,000	590,000	590,000	3,410,000
Road Use Tax Fund	500,000					500,000
Total	1,565,000	625,000	590,000	590,000	590,000	3,960,000

Budget Impact/Other

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

Budget Items	2021	2022	2023	2024	2025	Total
Utilities	1,700	2,600	2,900	3,500	3,800	14,500
Total	1,700	2,600	2,900	3,500	3,800	14,500

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # TRF-00-001

Project Name Annual Traffic Signal Improvement Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Public Works
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Traffic Control

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

Description

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

Justification

When the I-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 will be placed on the interchange and additional capacity will be needed on the entrance and exit ramps and on SE Corporate Woods Drive itself. The initial concept includes widening SE Corporate Woods Drive through the interchange and adding loop ramps for both the northbound and southbound I-35 entrance. The Iowa DOT will cost share for the engineering services necessary to complete the IJR.

Expenditures	2021	2022	2023	2024	2025	Total
Planning Study			100,000			100,000
Total			100,000			100,000

Funding Sources	2021	2022	2023	2024	2025	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.

City of Ankeny, Iowa

2021 *thru* 2025

Department Public Works

Contact City Engineer

Project # **TRF-21-001**

Project Name I-35 & SE Corp Woods Dr Interchange Justification



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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. Specific projects for 2021 to 2025 include the following:

- Development water main oversizing: 2021 to 2025 – \$100,000/year (2021 will be \$150,000)
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2021 - \$50,000 (engineering) \$600,000 (construction); 2022 - \$40,000 (engineering) \$460,000 (construction); 2023 - \$40,000 (engineering) \$410,000 (construction); 2024 - \$20,000 (engineering) \$430,000 (construction)
- I/3 Next Neighborhood Utility Improvements: 2023 – 25,000 (engineering); 2024 - \$50,000 (engineering); 2025 - \$50,000 (engineering) \$500,000 (construction)
- SE 8th Street (SE Sharon Drive to South Ankeny Boulevard) Water Main Improvements; 2021 - \$150,000 (construction)

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. Engineering staff will be used for the design and construction observation whenever possible; however, the full reconstruction and utility replacement projects (NW Northlawn and SE 8th Street) 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 especially in the Deer Creek area.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design	50,000	40,000	65,000	70,000	50,000	275,000
Construction Costs	900,000	560,000	510,000	530,000	600,000	3,100,000
Total	950,000	600,000	575,000	600,000	650,000	3,375,000

Funding Sources	2021	2022	2023	2024	2025	Total
Capital Project Fund	398,158	100,000			50,000	548,158
Special Assessments	51,842					51,842
Water Fund	500,000	500,000	575,000	600,000	600,000	2,775,000
Total	950,000	600,000	575,000	600,000	650,000	3,375,000

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	2021	2022	2023	2024	2025	Total
Utilities	350	350	350	350	350	1,750
Total	350	350	350	350	350	1,750

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-00-001

Project Name Annual Water Main Replacement Program



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 4,200 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	2021	2022	2023	2024	2025	Total
Engineering-Design	115,000					115,000
Engineering-Construction Services		95,000				95,000
Construction Costs		1,040,000				1,040,000
Planning Study	10,000	15,000				25,000
Total	125,000	1,150,000				1,275,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds	125,000	1,150,000				1,275,000
Total	125,000	1,150,000				1,275,000

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 505,000 gallons to fill and flush the new main.

City of Ankeny, Iowa

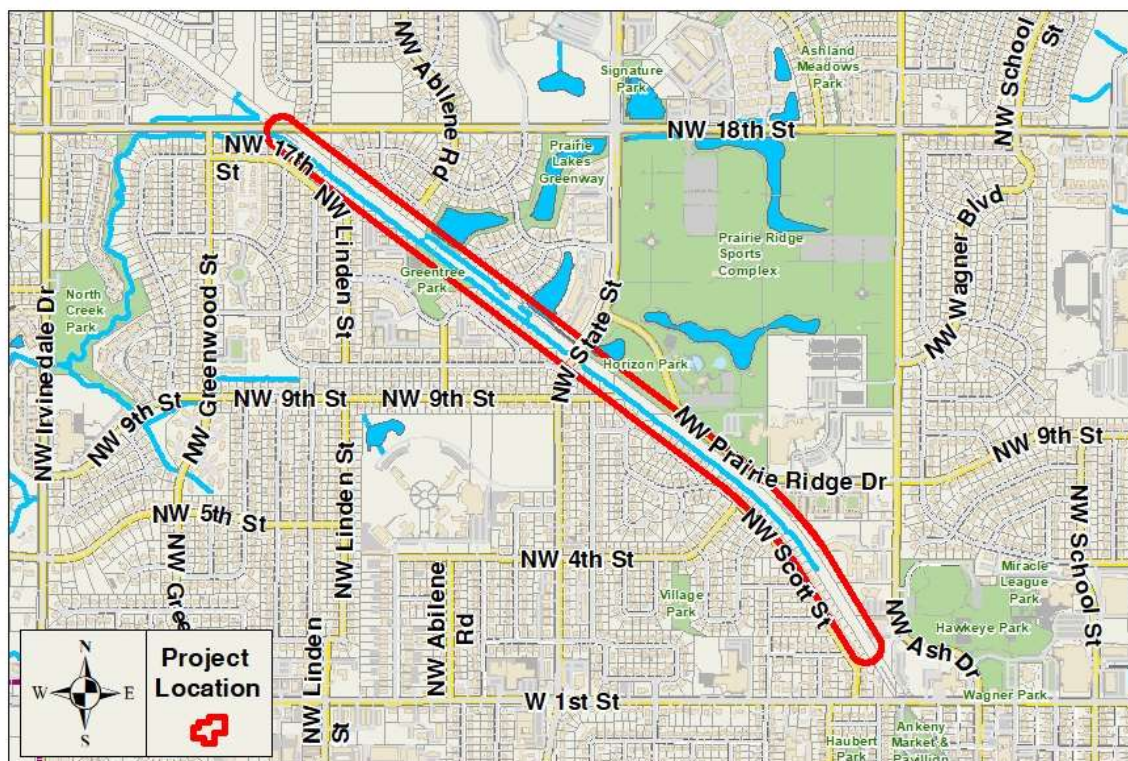
2021 *thru* 2025

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-17-001**

Project Name High Trestle Trail Transmission Main-Phase 1



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 Irvinedale Drive Transmission Main-Phase 3

Description

Install approximately 4,900 LF of 24" transmission water main along NW Irvinedale Drive from NW 9th Street north to NW 18th Street and from just north of Trestle Ridge Estates Plat 3 to the future Northwest Water Tower site north of NW 36th Street.

Justification

The purpose of this project is to increase water conveyance from the Southwest Water Tower north along Irvinedale Drive to the NW Booster Station and from the NW Booster Station to the future Northwest Water Tower. The project is the third and final of three phases that connects the NW Booster Station to the water supply from DMWW Saylorville Water Treatment Plant and will ultimately feed the new water tower. The completion of this phase will improve the performance and operation of the overall water storage and distribution system. The north section of this project will result in the Northwest Pressure Zone operating from the Northwest Tower elevation with a gradient of 1140 and not via pressure sensors at the NW Booster Station. This will provide more reliable water pressure and flow in that zone.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	173,000					173,000
Construction Costs	1,715,000					1,715,000
Total	1,888,000					1,888,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds	1,888,000					1,888,000
Total	1,888,000					1,888,000

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 560,000 gallons to fill and flush the new main.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities	1,700					1,700
Total	1,700					1,700

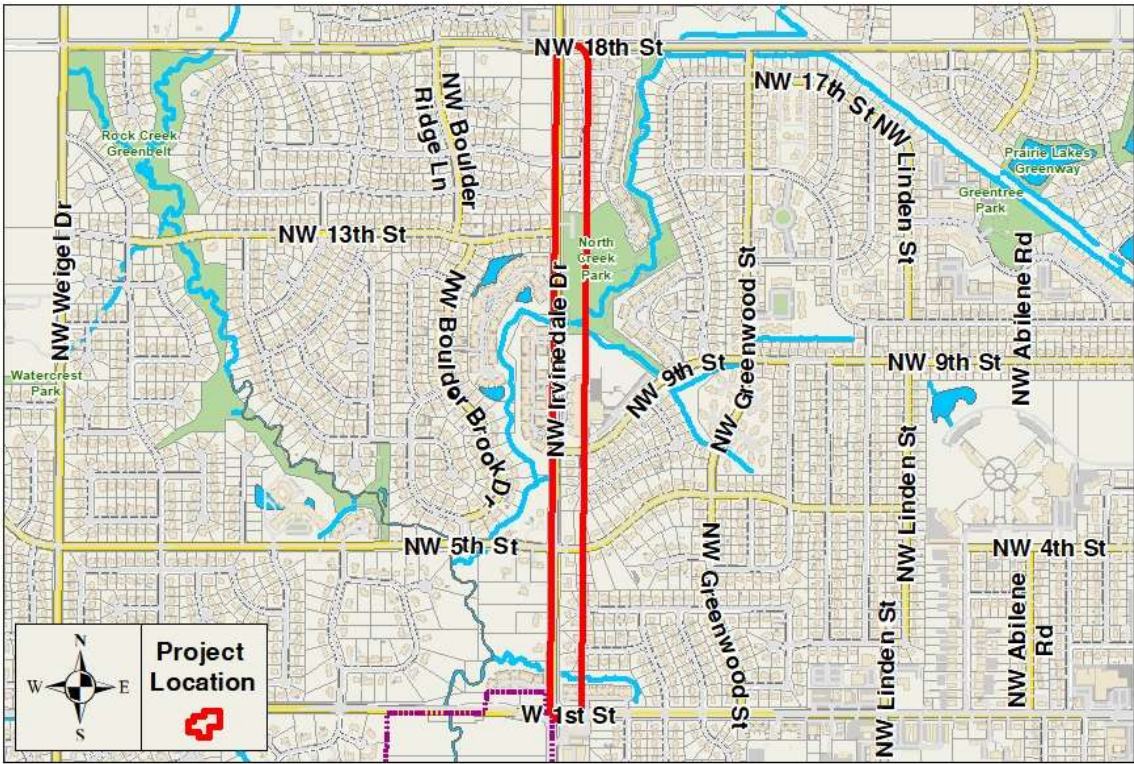
2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 *thru* 2025

Department Water Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

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

Description

Purchase the remaining capacity in the Saylorville Water Treatment Plant north feeder main, which is an existing 24” transmission main that extends north along NW 26th Street from NW 66th Avenue through our meter pit to SW Oralabor Road. This main will ultimately be extended north to the future NW Water Tower.

Justification

The purpose of this purchase is to provide additional transmission pipe capacity to support future water needs in the City. DMWW has requested that the City purchase the additional pipe capacity, so DMWW can use the revenue to construct a new feeder main to Polk City. The actual timing for purchasing the additional pipe capacity will need to be discussed further with DMWW and could be impacted by water regionalization.

Expenditures	2021	2022	2023	2024	2025	Total
Legal-General/Spec.				1,000		1,000
Assessment						
Other Costs				700,000		700,000
Total				701,000		701,000

Funding Sources	2021	2022	2023	2024	2025	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 additional capacity there are no expected costs for an operational impact.

2021 - 2025 Capital Improvement Program

2021 *thru* **2025**

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-17-008

Project Name Saylorville Feeder Main Purchase Capacity



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 20 years
Category Water Mains

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

Description

Install approximately 5,500 LF of 24" transmission main along South Ankeny Boulevard from SW Magazine Road south to SE Oralabor Road and a new main across 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 noninterrupted source water if any of the pump stations or transmission mains are out of service.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Design		210,000				210,000
Engineering-Construction Services			180,000			180,000
Construction Costs			1,985,000			1,985,000
Total		210,000	2,165,000			2,375,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds		210,000	2,165,000			2,375,000
Total		210,000	2,165,000			2,375,000

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 650,000 gallons to fill and flush the new main.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities			2,000			2,000
Total			2,000			2,000

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 thru 2025

Department Water Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 Ordance 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	2021	2022	2023	2024	2025	Total
Engineering-Design			100,000			100,000
Engineering-Construction Services				100,000		100,000
Construction Costs				1,210,000		1,210,000
Total			100,000	1,310,000		1,410,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds			100,000	1,310,000		1,410,000
Total			100,000	1,310,000		1,410,000

Budget Impact/Other

This project can reduce the frequency of maintenance of the pumps at the Magazine Pump Station as they will not have to work as hard to get water into our distribution system. Less friction loss in larger diameter pipes means pumps will not have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs due to lower amp draw. It will take about 165,000 gallons to fill and flush the new main.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities				500		500
Total				500		500

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

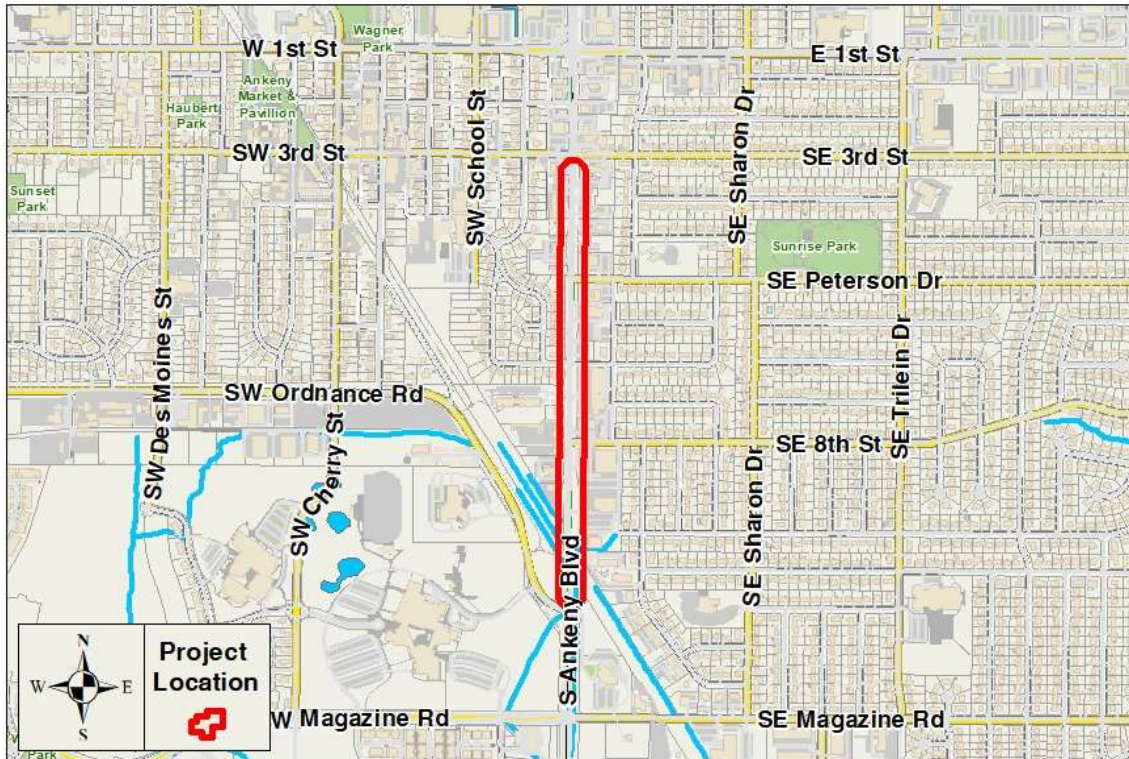
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-001

Project Name South Ankeny Boulevard Water Main Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
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	2021	2022	2023	2024	2025	Total
Engineering-Design				100,000		100,000
Engineering-Construction Services					85,000	85,000
Construction Costs					965,000	965,000
Total				100,000	1,050,000	1,150,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds				100,000	1,050,000	1,150,000
Total				100,000	1,050,000	1,150,000

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 81,000 gallons to fill and flush the new main.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities					250	250
Total					250	250

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

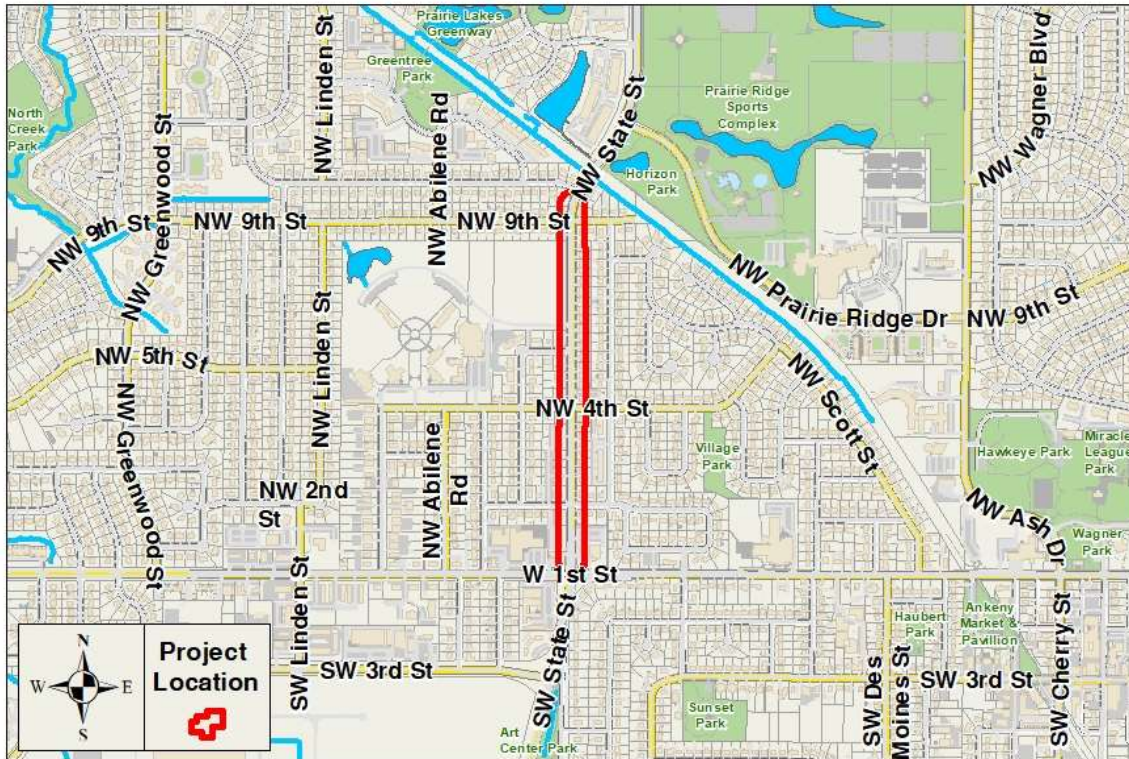
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-003

Project Name NW State Street Water Main Improvements



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
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 feet 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.

Expenditures	2021	2022	2023	2024	2025	Total
Engineering-Construction Services	125,500					125,500
Construction Costs	1,350,000					1,350,000
Land/ROW Acquisition	24,500					24,500
Total	1,500,000					1,500,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds	1,500,000					1,500,000
Total	1,500,000					1,500,000

Budget Impact/Other

This is a new water main that will take approximately 480,000 gallons to fill and flush the new main..

Budget Items	2021	2022	2023	2024	2025	Total
Utilities	1,500					1,500
Total	1,500					1,500

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

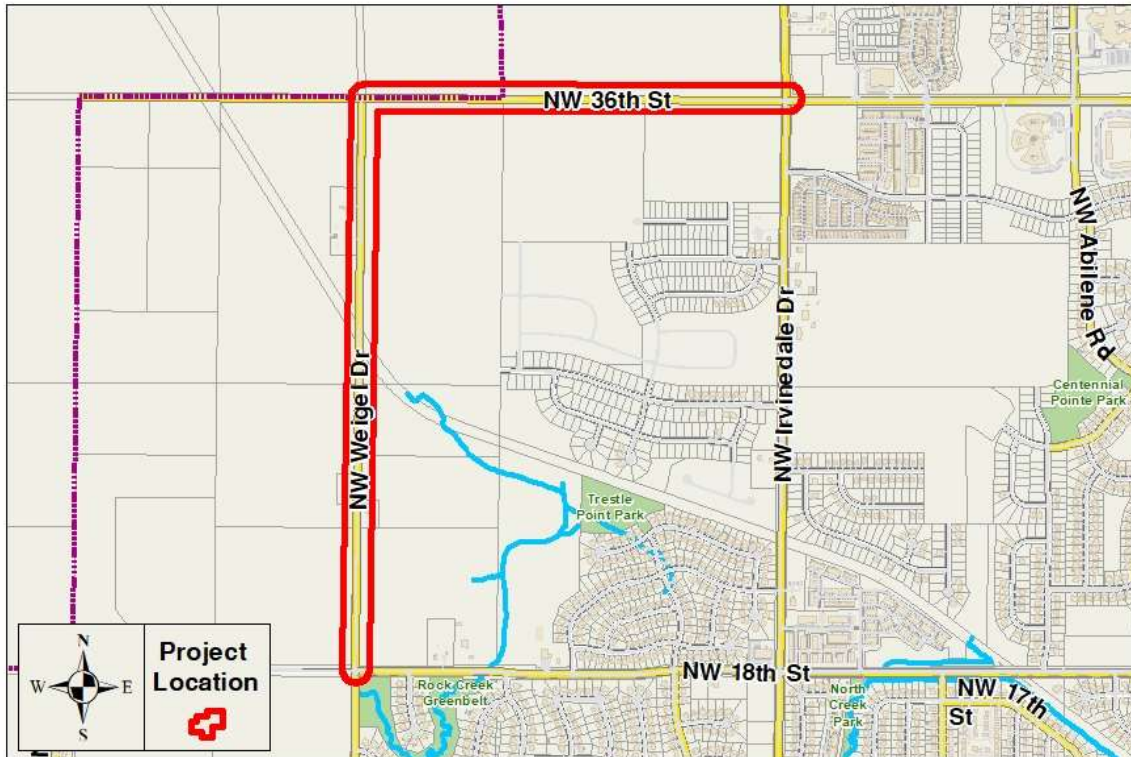
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-20-001

Project Name NW 36th Street and NW Weigel Drive Water Main Loop



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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	2021	2022	2023	2024	2025	Total
Engineering-Design					117,000	117,000
Total					117,000	117,000
Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds					117,000	117,000
Total					117,000	117,000

Budget Impact/Other

The operating impact will have negligible cost implications as it will primarily help the fire flows in the area. It will take about 47,000 gallons to fill and flush the new main.

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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 5,500 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	2021	2022	2023	2024	2025	Total
Engineering-Design		200,000				200,000
Engineering-Construction Services			165,000			165,000
Construction Costs			1,835,000			1,835,000
Total		200,000	2,000,000			2,200,000
Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds		200,000	2,000,000			2,200,000
Total		200,000	2,000,000			2,200,000

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 645,000 gallons to fill and flush the new main.

Budget Items	2021	2022	2023	2024	2025	Total
Utilities			2,000			2,000
Total			2,000			2,000

2021 - 2025 Capital Improvement Program

2021 thru 2025

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

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

Complete a siting study to determine alternatives and the preferred location for a new 2.0 MGD Aquifer Storage and Recovery (ASR) and associated water main for connecting it to the distribution system. An option will be considered to further increase use of this ASR. The design will include flexibility to increase the capacity to approximately 3.0 MGD. The project will also include land acquisition (if necessary) and design and construction of the ASR and water main connection.

Justification

The purpose of this project is to replace the existing ASR No. 1 on SW Elm Street. Additional supply capacity is needed to meet high water demand periods, existing ASR 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.

Expenditures	2021	2022	2023	2024	2025	Total
Consultant	300,000					300,000
Engineering-Construction Services		300,000				300,000
Construction Costs		3,500,000				3,500,000
Land/ROW Acquisition		350,000				350,000
Total	300,000	4,150,000				4,450,000
Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds	300,000	4,150,000				4,450,000
Total	300,000	4,150,000				4,450,000

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. The siting study may require administrative staff time, working with the consultant on available parcels either City owned or ones available to purchase. Connecting to the existing water distribution system will require field staff to operate valves and coordinate testing of new mains. Financial impacts will be estimated once a site is chosen and the amount of water main being installed is known. It is anticipated that we will use 50,000,000 gallons of water during the testing phase of the ASR plus testing at a lab.

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTT-17-002

Project Name Aquifer Storage and Recovery Well #1 Replacement



city of
Ankeny

bringing it all together

2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

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

Description

Construct a new 2.25 million gallon water tower on the northwest side of the City to provide additional water storage and a 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	2021	2022	2023	2024	2025	Total
Engineering-Design		300,000				300,000
Engineering-Construction Services			300,000			300,000
Construction Costs			6,000,000			6,000,000
Total		300,000	6,300,000			6,600,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds		300,000	6,300,000			6,600,000
Total		300,000	6,300,000			6,600,000

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 Items	2021	2022	2023	2024	2025	Total
Utilities			18,000			18,000
Total			18,000			18,000

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

2021 thru 2025

Department Water Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

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

Description

This project is to repaint the interior and exterior of the SE Delaware Ground Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically one can expect painted surfaces to last in the 15-20 year range. This ground storage tank was last painted around the year 2000 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	2021	2022	2023	2024	2025	Total
Engineering-Design			20,000			20,000
Construction Costs			280,000			280,000
Total			300,000			300,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds			300,000			300,000
Total			300,000			300,000

Budget Impact/Other

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

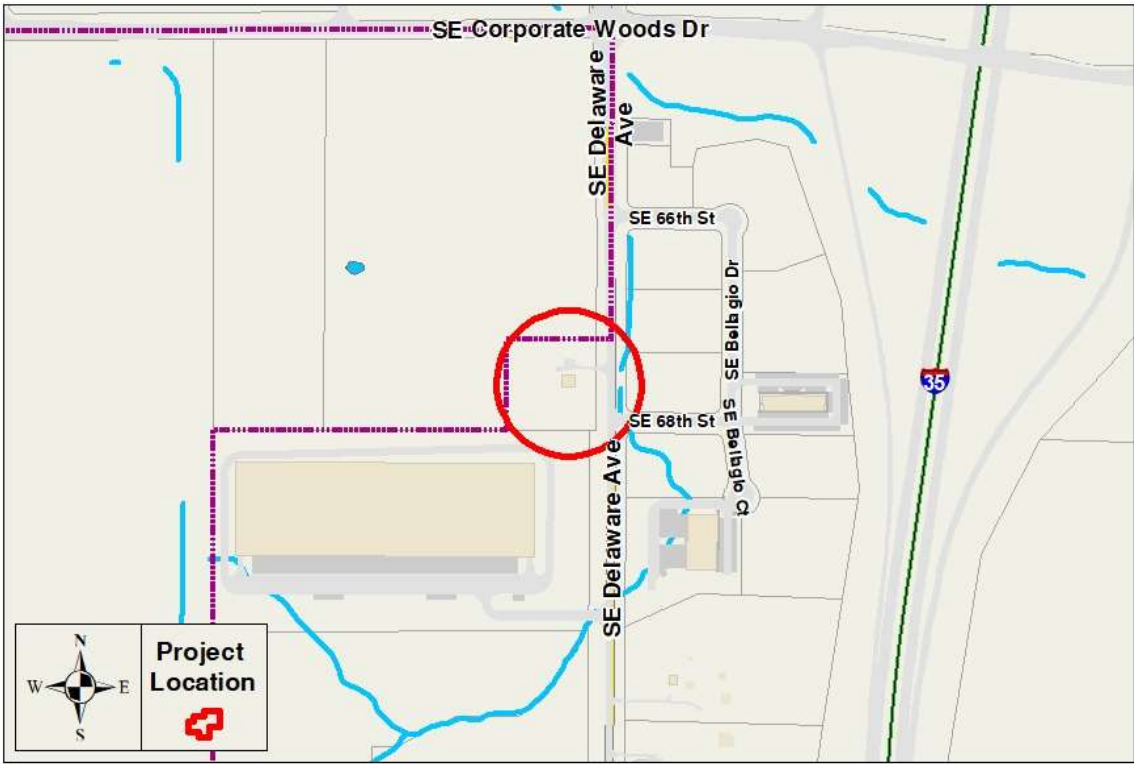
Budget Items	2021	2022	2023	2024	2025	Total
Utilities			1,500			1,500
Total			1,500			1,500

2021 - 2025 Capital Improvement Program
City of Ankeny, Iowa

2021 *thru* 2025

Department Water Utility
Contact Municipal Utilities Director

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



2021 - 2025 Capital Improvement Program

2021 *thru* 2025

City of Ankeny, Iowa

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

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

Description

This project is to repaint the interior and exterior of the SE Magazine Ground Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically one can expect painted surfaces to last in the 15-20 year range. This ground storage tank was last painted around the year 2002 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	2021	2022	2023	2024	2025	Total
Engineering-Design				25,000		25,000
Construction Costs				375,000		375,000
Total				400,000		400,000

Funding Sources	2021	2022	2023	2024	2025	Total
Water Revenue Bonds				400,000		400,000
Total				400,000		400,000

Budget Impact/Other

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

Budget Items	2021	2022	2023	2024	2025	Total
Utilities				3,000		3,000
Total				3,000		3,000

2021 - 2025 Capital Improvement Program

City of Ankeny, Iowa

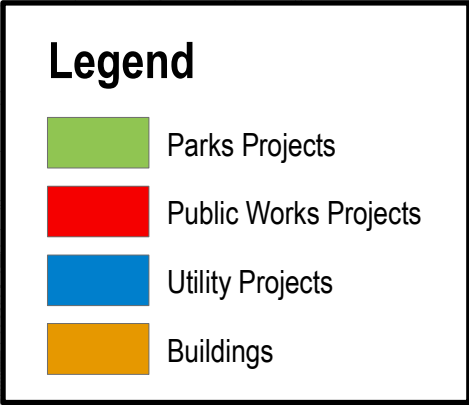
2021 *thru* 2025

Department Water Utility
Contact Municipal Utilities Director

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



Section 5





Ankeny City Hall • 410 West First Street • Ankeny, Iowa 50023
515.965.6400 • www.ankenyiowa.gov