



ANKENY CITY COUNCIL

Council Action Planning Session

Monday, November 6, 2023

5:30 PM

Ankeny Kirkendall Public Library - City Council Chambers

1250 SW District Drive, Ankeny, Iowa

Mark Holm, Mayor

Bobbi Bentz, Mayor Pro-Tem

Council Members: Jeff Perry, Joe Ruddy, Todd Shafer, Kelly Stearns

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A. Use the following link to join electronically:

Join Zoom Meeting

<https://zoom.us/j/97312992966?pwd=OEFocWZGS0NYUmtnVHNxcWZFak9Pd09>

Meeting ID: 973 1299 2966

Passcode: 1234

To Call in: +1 312 626 6799

Meeting ID: 973 1299 2966

Passcode: 1234

B. 2024-2028 Capital Improvement Program (CIP): Utilities (Water, Wastewater, Stormwater)

C. Adjournment

No official action will take place during this planning session.



ANKENY CITY COUNCIL

City Council Action Planning Session

November 6, 2023
5 : 30 PM

Mark Holm, Mayor
Bobbi Bentz, Mayor Pro tem

Council Members: Jeff Perry, Joe Ruddy, Todd Shafer, Kelly Stearns



ORIGINATING DEPARTMENT:
City Manager

COUNCIL GOAL:
Exercise Financial Discipline

ACTION REQUESTED:

LEGAL:

SUBJECT:

2024-2028 Capital Improvement Program (CIP): Utilities (Water, Wastewater, Stormwater)

EXECUTIVE SUMMARY:

FISCAL IMPACT: **No**

CITY MANAGER'S RECOMMENDATIONS:

PREVIOUS COUNCIL/COMMISSION/BOARD ACTION(S):

PUBLIC OUTREACH EFFORTS:

ACTION REQUESTED:

ADDITIONAL INFORMATION:

ATTACHMENTS:

Click to download
 CIP Packet

History

Time

Who

Approval

11/2/2023 12:01 PM

City Clerks Office

Yes

2024 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2024	Debt Service Levy	Storm Water	Tax Increment Financing	Road Use Tax Water Sewer	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,355,000								\$ 1,355,000				
Annual Storm Water Replacement Program	STM-00-001	450,000								450,000				
Annual Water Main Replacement Program	WTM-00-001	825,000								825,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	791,000								791,000				
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	325,000								325,000				
Fire Station No. 4 Sanitary Sewer	SNS-24-001	730,000								730,000				
Four Mile Creek Trunk Sewer - Phase 2	SNS-24-002	2,275,000								2,275,000				
Sawgrass Park Dam Improvements	STM-19-004	90,000		90,000										
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	130,000		130,000										
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	940,000		540,000						400,000				
NW 17th Street Storm Sewer and Pavement Improvements	STM-24-001	20,000	11,600	8,400										
SW Des Moines Street Utility Improvements	STM-24-002	235,000		78,333						156,667				
Saylorville Feeder Main Purchase Capacity	WTM-17-008	604,000					604,000							
SW Walnut Street and SW Ordnance Road Water Main, including Uptown Parking Improvements	WTM-20-002	295,000					295,000							
NE 36th Street and NE 38th Street Water Main Loop	WTM-21-009	2,300,000					2,300,000							
Northwest Water Tower	WTT-19-002	11,295,000					11,295,000							
SE Magazine Ground Storage Tank Repaint	WTT-20-002	726,000					726,000							
		\$ 23,386,000	\$ 11,600	\$ 846,733	\$ -	\$ -	\$ 15,220,000	\$ -	\$ -	\$ 7,307,667	\$ -	\$ -	\$ -	\$ -

2025 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2025	Debt Service Levy	Storm Water	Tax Increment Financing	Road Use Tax Water Sewer	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,320,000								\$ 1,320,000				
Annual Storm Water Replacement Program	STM-00-001	450,000								450,000				
Annual Water Main Replacement Program	WTM-00-001	800,000								800,000				
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	1,650,000								1,650,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	353,000								353,000				
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	425,000								425,000				
Clover Ridge Trunk Sewer Extension	SNS-22-003	105,000								105,000				
Polk County Lift Station Decommissioning	SNS-22-004	154,000								154,000				
Sawgrass Park Dam Improvements	STM-19-004	445,000		445,000										
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	2,160,000		1,040,000					1,120,000					
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	415,000		15,000						400,000				
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	190,000		190,000										
Diamond Hills Greenway Stream Stabilization	STM-22-002	75,000		75,000										
NW 17th Street Storm Sewer and Pavement Improvements	STM-24-001	900,000	522,000	378,000										
SW Des Moines Street Utility Improvements	STM-24-002	1,515,000		505,000						1,010,000				
SW Walnut Street and SW Ordnance Road Water Main, including Uptown Parking Improvements	WTM-20-002	2,180,000			320,000		1,860,000							
East Water Tower	WTT-24-001	400,000					400,000							
			\$ 13,537,000	\$ 522,000	\$ 2,648,000	\$ 320,000	\$ -	\$ 2,260,000	\$ -	\$ 1,120,000	\$ 6,667,000	\$ -	\$ -	\$ -

2026 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2026	Debt Service Levy	Storm Water	Tax Increment Financing	Road Use Tax Water Sewer	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,345,000								\$ 1,345,000				
Annual Storm Water Replacement Program	STM-00-001	450,000								450,000				
Annual Water Main Replacement Program	WTM-00-001	825,000								825,000				
Clover Ridge Trunk Sewer Extension	SNS-22-003	846,000								846,000				
Polk County Lift Station Decommissioning	SNS-22-004	1,672,000								1,672,000				
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	12,000								12,000				
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	1,265,000		596,300					668,700					
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,420,000		1,020,000						400,000				
Diamond Hills Greenway Stream Stabilization	STM-22-002	75,000		75,000										
Saylor Creek Tributary Channel Improvements	STM-22-005	190,000		190,000										
SW Des Moines Street Utility Improvements	STM-24-002	505,000		168,333						336,667				
South Ankeny Boulevard Water Main Improvements - SE Peterson Street to SW Ordnance Road	WTM-19-001	128,000					128,000							
East Water Tower	WTT-24-001	10,400,000					10,400,000							
		\$ 19,133,000	\$ -	\$ 2,049,633	\$ -	\$ -	\$ 10,528,000	\$ -	\$ 668,700	\$ 5,886,667	\$ -	\$ -	\$ -	\$ -

2027 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2027	Debt Service Levy	Storm Water	Tax Increment Financing	Road Use Tax Water Sewer	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,395,000								\$ 1,395,000				
Annual Storm Water Replacement Program	STM-00-001	450,000								450,000				
Annual Water Main Replacement Program	WTM-00-001	875,000								875,000				
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	118,000								118,000				
Deer Creek Trunk Sewer Extension	SNS-23-003	216,000								216,000				
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,330,000		930,000						400,000				
Diamond Hills Greenway Stream Stabilization	STM-22-002	1,610,000		1,610,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	160,000		95,000					65,000					
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	270,000		165,000					105,000					
Saylor Creek Tributary Channel Improvements	STM-22-005	210,000		210,000										
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	95,000		45,000					50,000					
South Ankeny Boulevard Water Main Improvements - SE Peterson Street to SW Ordnance Road	WTM-19-001	1,172,000					1,172,000							
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	90,000								90,000				
			\$ 7,991,000	\$ -	\$ 3,055,000	\$ -	\$ -	\$ 1,172,000	\$ -	\$ 220,000	\$ 3,544,000	\$ -	\$ -	\$ -

2028 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2028	Debt Service Levy	Storm Water	Tax Increment Financing	Road Use Tax Water Sewer	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,445,000								\$ 1,445,000				
Annual Storm Water Replacement Program	STM-00-001	500,000								500,000				
Annual Water Main Replacement Program	WTM-00-001	925,000								925,000				
Deer Creek Trunk Sewer Extension	SNS-23-003	2,009,000								2,009,000				
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	150,000		90,000					60,000					
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	260,000		155,000					105,000					
Saylor Creek Tributary Channel Improvements	STM-22-005	3,400,000		3,000,000						400,000				
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	90,000		40,000					50,000					
SW Linden Street and SW Sharmin Drive Water Main Improvements	WTM-24-001	60,000					60,000							
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	1,187,000					1,187,000							
\$ 10,026,000			\$ -	\$ 3,285,000	\$ -	\$ -	\$ 1,247,000	\$ -	\$ 215,000	\$ 5,279,000	\$ -	\$ -	\$ -	\$ -

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>	<u>Projected 2028</u>
Beginning Cash Balance	\$ 1,976,615	\$ 1,342,325	\$ 987,325	\$ 767,325	\$ 622,325	\$ 527,325
<u>Transfers In</u>						
Sewer Fund	\$ 700,000	\$ 1,000,000	\$ 1,100,000	\$ 1,200,000	\$ 1,300,000	\$ 1,400,000
Total Transfers In	\$ 700,000	\$ 1,000,000	\$ 1,100,000	\$ 1,200,000	\$ 1,300,000	\$ 1,400,000
<u>Project Expenditures</u>						
Sanitary Sewer Oversizing	\$ 49,845	\$ 30,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
Sanitary Sewer Spot Repairs, Manhole Repairs and Slip Lining	\$ 566,549	\$ 575,000	\$ 575,000	\$ 575,000	\$ 575,000	\$ 575,000
NW Northlawn Area Utility Improvements	\$ 717,897	\$ 650,000	\$ 675,000			
Westlawn Place Area Utility Improvements		\$ 100,000	\$ 50,000	\$ 750,000	\$ 800,000	\$ 850,000
Total Project Expenditures	\$ 1,334,291	\$ 1,355,000	\$ 1,320,000	\$ 1,345,000	\$ 1,395,000	\$ 1,445,000
Remaining Cash Balance	<u>\$ 1,342,325</u>	<u>\$ 987,325</u>	<u>\$ 767,325</u>	<u>\$ 622,325</u>	<u>\$ 527,325</u>	<u>\$ 482,325</u>

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>	<u>Projected 2028</u>
Beginning Cash Balance	\$ 413,688	\$ 436,944	\$ 386,944	\$ 336,944	\$ 336,944	\$ 336,944
<u>Transfers In</u>						
Storm Water Fund	\$ 350,000	\$ 400,000	\$ 400,000	\$ 450,000	\$ 450,000	\$ 500,000
Total Transfers In	\$ 350,000	\$ 400,000	\$ 400,000	\$ 450,000	\$ 450,000	\$ 500,000
<u>Project Expenditures</u>						
Small open cut repairs to storm sewers and/or structures near NW Briargate Drive, 700 block of NE 5th Street, SW 2nd Court, 1500 block of NW Linwood Street, 700 block of NE Hayes Drive and NE 31st Street and NE Trilein Drive	\$ 133,550					
Repairs to flow control structures/orifice plates in Renaissance Park, NE Briarwood Drive and the Public Services Building	\$ 5,000					
Erosion repairs at SW Ordinance Road and SW State Street and NW Greenwood Street	\$ 17,000					
Cost share to repair/replace culvert under SW Ankeny Road	\$ 25,000					
Maintenance and storm sewer improvements along Saylor Creek near Vintage Business Park and in the Vintage Greenway	\$ 101,079	\$ 200,000				
Replace storm sewer intakes and cross-run storm sewer pipes on SW Des Moines Street, at NW 9th Street and NW School Street intersection and at NW 5th Street and NW School Street intersection		\$ 155,000				
Drainage improvements on North Creek Trail near North Creek Park		\$ 20,000				
Four Mile Creek storm sewer outlet repairs		\$ 30,000				
Storm water conservation projects	\$ 15,000	\$ 10,000				
Minor storm water management and storm sewer improvements and repairs	\$ 30,115	\$ 35,000				
Storm water projects (TBD)			\$ 450,000	\$ 450,000	\$ 450,000	\$ 500,000
Total Project Expenditures	\$ 326,744	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 500,000
Remaining Cash Balance	\$ 436,944	\$ 386,944	\$ 336,944	\$ 336,944	\$ 336,944	\$ 336,944

<u>Annual Water Main Replacement Program</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>	<u>Projected 2028</u>
Beginning Cash Balance	\$ 1,116,942	\$ 893,439	\$ 768,439	\$ 693,439	\$ 618,439	\$ 518,439
<u>Transfers In</u>						
Water Fund	\$ 600,000	\$ 700,000	\$ 725,000	\$ 750,000	\$ 775,000	\$ 800,000
Total Transfers In	\$ 600,000	\$ 700,000	\$ 725,000	\$ 750,000	\$ 775,000	\$ 800,000
<u>Project Expenditures</u>						
Water Main Oversizing	\$ 105,605	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
NW Northlawn Area Utility Improvements	\$ 717,897	\$ 650,000	\$ 675,000			
Westlawn Place Area Utility Improvements		\$ 100,000	\$ 50,000	\$ 750,000	\$ 800,000	\$ 850,000
Total Project Expenditures	\$ 823,502	\$ 825,000	\$ 800,000	\$ 825,000	\$ 875,000	\$ 925,000
Remaining Cash Balance	\$ 893,439	\$ 768,439	\$ 693,439	\$ 618,439	\$ 518,439	\$ 393,439

2024-2028 Capital Improvement Program Overall Project Listing with 10-Year High Priority Projects								
Proposed Projects								
	Project No.	2024	2025	2026	2027	2028	High Priority Projects	Project Cost
ANNUAL PROGRAMS								
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,355,000	\$ 1,320,000	\$ 1,345,000	\$ 1,395,000	\$ 1,445,000	\$ 8,500,000	\$ 15,360,000
Annual Storm Water Replacement Program	STM-00-001	450,000	450,000	450,000	450,000	500,000	2,800,000	5,100,000
Annual Water Main Replacement Program	WTM-00-001	825,000	800,000	825,000	875,000	925,000	4,375,000	8,625,000
SANITARY SEWERS								
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	-	1,650,000	-	-	-	-	1,650,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	791,000	353,000	-	-	-	-	1,144,000
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	325,000	425,000	-	-	-	-	750,000
Clover Ridge Trunk Sewer Extension	SNS-22-003	-	105,000	846,000	-	-	-	951,000
Polk County Lift Station Decommissioning	SNS-22-004	-	154,000	1,672,000	-	-	-	1,826,000
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	-	-	12,000	118,000	-	-	130,000
Deer Creek Trunk Sewer Extension	SNS-23-003	-	-	-	216,000	2,009,000	-	2,225,000
Fire Station No. 4 Sanitary Sewer	SNS-24-001	730,000	-	-	-	-	-	730,000
Four Mile Creek Trunk Sewer - Phase 2	SNS-24-002	2,275,000	-	-	-	-	-	2,275,000
John Deere Lift Station Replacement	Sanitary Sewers	-	-	-	-	-	1,200,000	1,200,000
Sanitary Sewer Evaluation Survey - Central Basin	Sanitary Sewers	-	-	-	-	-	1,200,000	1,200,000
Saylor Creek Lift Station Study and Updates	Sanitary Sewers	-	-	-	-	-	1,000,000	1,000,000
STORM WATER								
Sawgrass Park Dam Improvements	STM-19-004	90,000	445,000	-	-	-	-	535,000
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	130,000	2,160,000	1,265,000	-	-	-	3,555,000
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	940,000	415,000	-	-	-	-	1,355,000
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	-	190,000	1,420,000	1,330,000	-	-	2,940,000
Diamond Hills Greenway Stream Stabilization	STM-22-002	-	75,000	75,000	1,610,000	-	-	1,760,000
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	-	-	-	160,000	150,000	1,320,000	1,630,000
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	-	-	-	270,000	260,000	2,265,000	2,795,000
Saylor Creek Tributary Channel Improvements	STM-22-005	-	-	190,000	210,000	3,400,000	-	3,800,000
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	-	-	-	95,000	90,000	770,000	955,000
NW 17th Street Storm Sewer and Pavement Improvements	STM-24-001	20,000	900,000	-	-	-	-	920,000
SW Des Moines Street Utility Improvements	STM-24-002	235,000	1,515,000	505,000	-	-	-	2,255,000

2024-2028 Capital Improvement Program								
Overall Project Listing with 10-Year High Priority Projects								
Proposed Projects								
	Project No.	2024	2025	2026	2027	2028	High Priority Projects	Project Cost
WATER								
Saylorville Feeder Main Purchase Capacity	WTM-17-008	604,000	-	-	-	-	-	604,000
South Ankeny Boulevard Water Main Improvements - SE Peterson Street to SW Ordnance Road	WTM-19-001	-	-	128,000	1,172,000	-	-	1,300,000
SW Walnut Street and SW Ordnance Road Water Main, including Uptown Parking Improvements	WTM-20-002	295,000	2,180,000	-	-	-	-	2,475,000
NE 36th Street and NE 38th Street Water Main Loop	WTM-21-009	2,300,000	-	-	-	-	-	2,300,000
SW Linden Street and SW Sharmin Drive Water Main Improvements	WTM-24-001	-	-	-	-	60,000	565,000	625,000
Northwest Water Tower	WTT-19-002	11,295,000	-	-	-	-	-	11,295,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002	726,000	-	-	-	-	-	726,000
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	-	-	-	90,000	1,187,000	-	1,277,000
East Water Tower	WTT-24-001	-	400,000	10,400,000	-	-	-	10,800,000
Aquifer Storage and Recovery Well No. 2 Rehabilitation	Water	-	-	-	-	-	1,330,000	1,330,000
NW State Street Water Main Improvements	Water	-	-	-	-	-	1,475,000	1,475,000
SE Corporate Woods Drive Transmission Main	Water	-	-	-	-	-	3,800,000	3,800,000
SW Oralabor Road Transmission Main	Water	-	-	-	-	-	4,950,000	4,950,000
	Year Totals	\$ 23,386,000	\$ 13,537,000	\$ 19,133,000	\$ 7,991,000	\$ 10,026,000	\$ 35,550,000	\$ 109,623,000

2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Type Improvement

Useful Life 40 years

Category Sanitary Sewers

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of sanitary sewers and structures and the Sanitary Sewer Fund's portion of the neighborhood projects.

Specific projects for 2024 to 2028 include:

- Bi-annual CIPP sanitary sewer lining: 2024 to 2028 - \$500,000/year even years
- Bi-annual manhole repair project: 2024 to 2028 - \$500,000/year odd years
- Sanitary sewer spot repairs: 2024 to 2028 - \$75,000/year
- Development sanitary sewer oversizing: 2024 - \$30,000 and 2025 to 2028 - \$20,000/year
- 1/3 NW Northlawn Area Utility Improvements (2 of 4 phases remaining):
 - o2024 - \$600,000 (Phase 3 construction) and \$25,000 (Phase 3 construction engineering) and \$25,000 (Phase 4 design engineering)
 - o2025 - \$650,000 (Phase 4 construction) and \$25,000 (Phase 4 construction engineering)

- 1/3 Westlawn Place Area Utility Improvements (number of phases TBD, potentially 6 to 8):

- o2024 - \$100,000 (stormwater study, survey, and preliminary conceptual design)
- o2025 - \$50,000 (final conceptual design and Phase 1 design engineering)
- o2026 - \$700,000 (Phase 1 construction) and \$25,000 (Phase 1 construction engineering) and \$25,000 (Phase 2 design engineering)
- o2027 - \$750,000 (Phase 2 construction) and \$25,000 (Phase 2 construction engineering) and \$25,000 (Phase 3 design engineering)
- o2028 - \$800,000 (Phase 3 construction) and \$25,000 (Phase 3 construction engineering) and \$25,000 (Phase 4 design engineering)

Justification

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design	25,000	50,000	25,000	25,000	25,000	150,000
Engineering-Construction Services	25,000	25,000	25,000	25,000	25,000	125,000
Construction Costs	1,205,000	1,245,000	1,295,000	1,345,000	1,395,000	6,485,000
Survey/Preliminary Analysis	100,000					100,000
Total	1,355,000	1,320,000	1,345,000	1,395,000	1,445,000	6,860,000

Funding Sources	2024	2025	2026	2027	2028	Total
Capital Project Fund	355,000	220,000	145,000	95,000	45,000	860,000
Sewer Fund	1,000,000	1,100,000	1,200,000	1,300,000	1,400,000	6,000,000
Total	1,355,000	1,320,000	1,345,000	1,395,000	1,445,000	6,860,000

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.

2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program



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2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

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	2024	2025	2026	2027	2028	Total
Engineering-Construction		150,000				150,000
Services						
Construction Costs		1,500,000				1,500,000
Total		1,650,000				1,650,000
Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund		1,650,000				1,650,000
Total		1,650,000				1,650,000

Budget Impact/Other

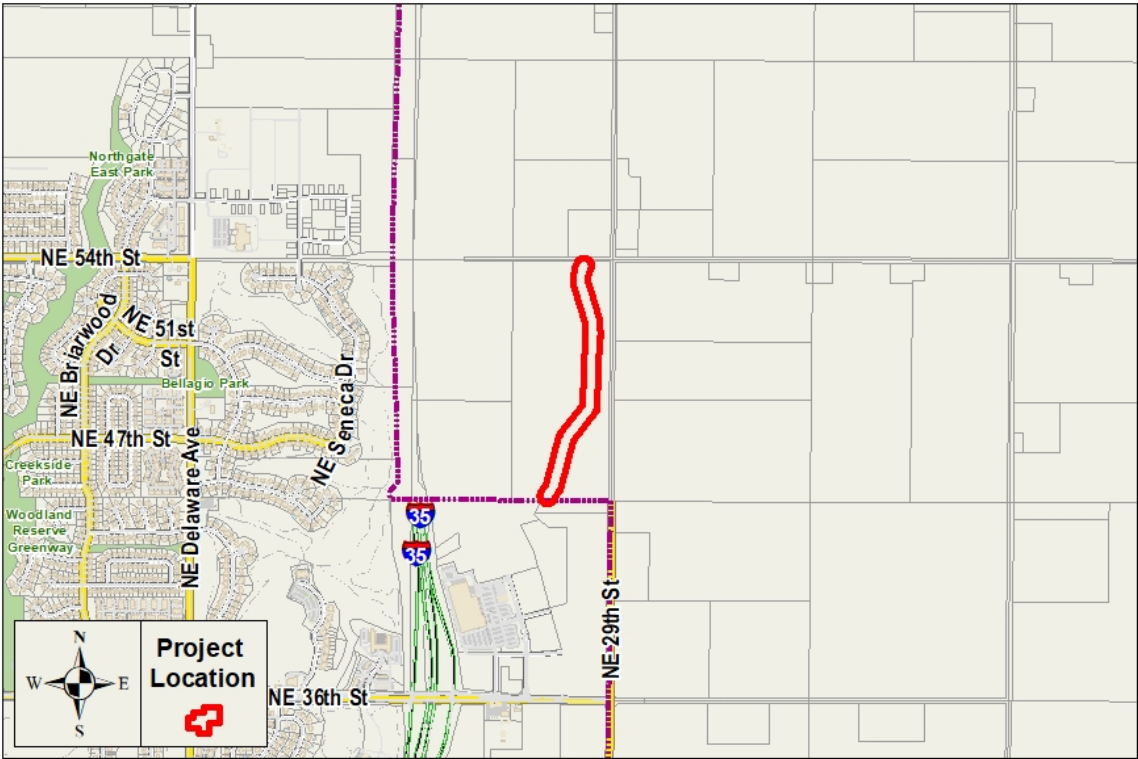
Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being a large diameter trunk sewer, this would have a lower frequency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

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	30,000	15,000				45,000
Construction Costs	761,000	338,000				1,099,000
Total	791,000	353,000				1,144,000
Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund	791,000	353,000				1,144,000
Total	791,000	353,000				1,144,000

Budget Impact/Other
It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance. Upsizing of the water main will help to reduce friction losses within the distribution system, and provide better hydraulics to serve the demand within the area. It will take approximately 25,000 gallons to fill and flush the new water main.

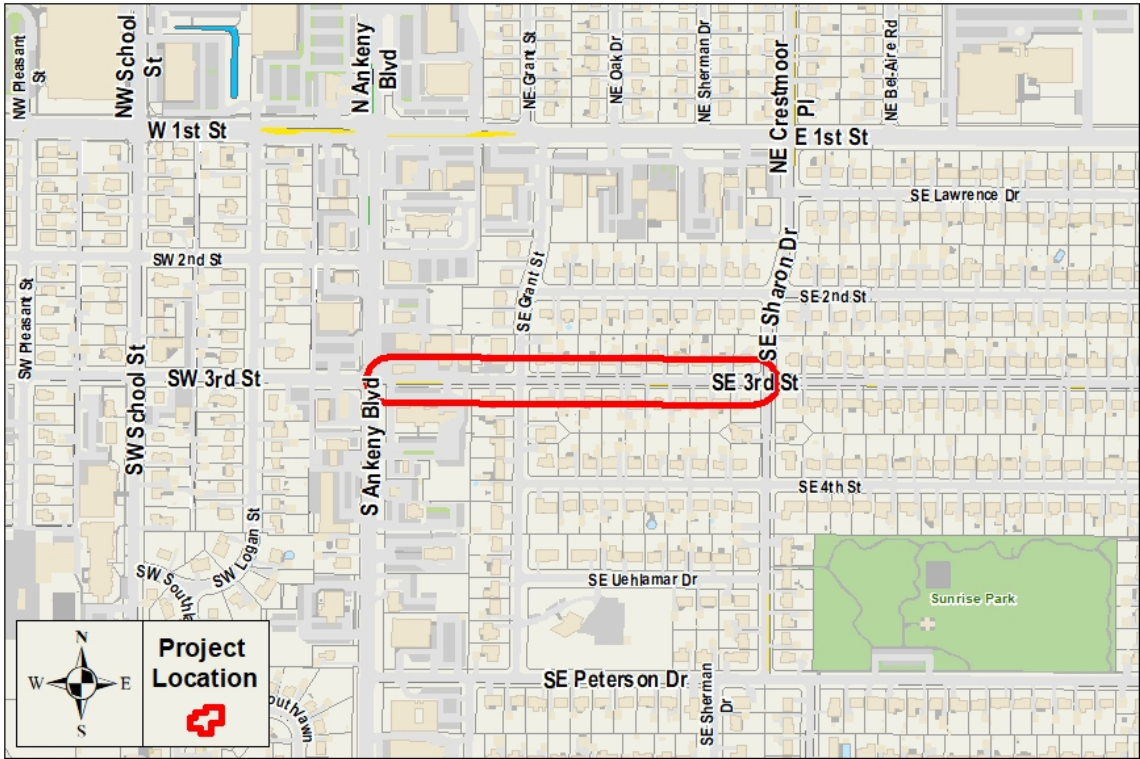
Budget Items	2024	2025	2026	2027	2028	Total
Utilities	65,100	28,900				94,000
Total	65,100	28,900				94,000

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 *thru* 2028

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

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

Description

The Trestle Ridge Trunk Sewer Cost Share project will include installation of approximately 1,600 LF of 24” sanitary sewer in 2024 and approximately 2,700 LF of 21” sanitary sewer in 2025. The Phase 1 trunk sewer will connect at an existing manhole at the northwest corner of Trestle Ridge Estates Plat 6 and continue north under NW 36th Street, terminating just north of NW 36th Street. Phase 2 will start at the north end of the Phase 1 limits to approximately 2,700 feet north of NW 36th Street and 1,400 feet west of NW Irvinedale Drive.

Justification

The Trestle Ridge Trunk Sewer Cost Share project is being proposed due to the developer planning to provide sanitary sewer to a subdivision north of NW 36 Street and west of NW Irvinedale Drive. The sanitary sewer (Phase 1 & 2) is approximately 4,300 feet short of serving this subdivision. The City will pay the cost difference of upsizing from an 8” line in order to avoid creating a development agreement that will result in hundreds of acres of credit due to the developer that will take an unknown amount of time to pay out. This method should be cost beneficial for both the City and developer in the long run. This project was proposed for 2023 but the development project didn’t occur so this cost share is being proposed for 2024 in anticipation the development occurs next year. The project is split into two phases in 2024 and 2025 to account for the possibility that the land along this trunk line gets developed in phases similar to what we have shown.

Expenditures	2024	2025	2026	2027	2028	Total
Construction Costs	325,000	425,000				750,000
Total	325,000	425,000				750,000
Funding Sources	2024	2025	2026	2027	2028	Total
Capital Project Fund	325,000	275,000				600,000
Sewer Fund		150,000				150,000
Total	325,000	425,000				750,000

Budget Impact/Other

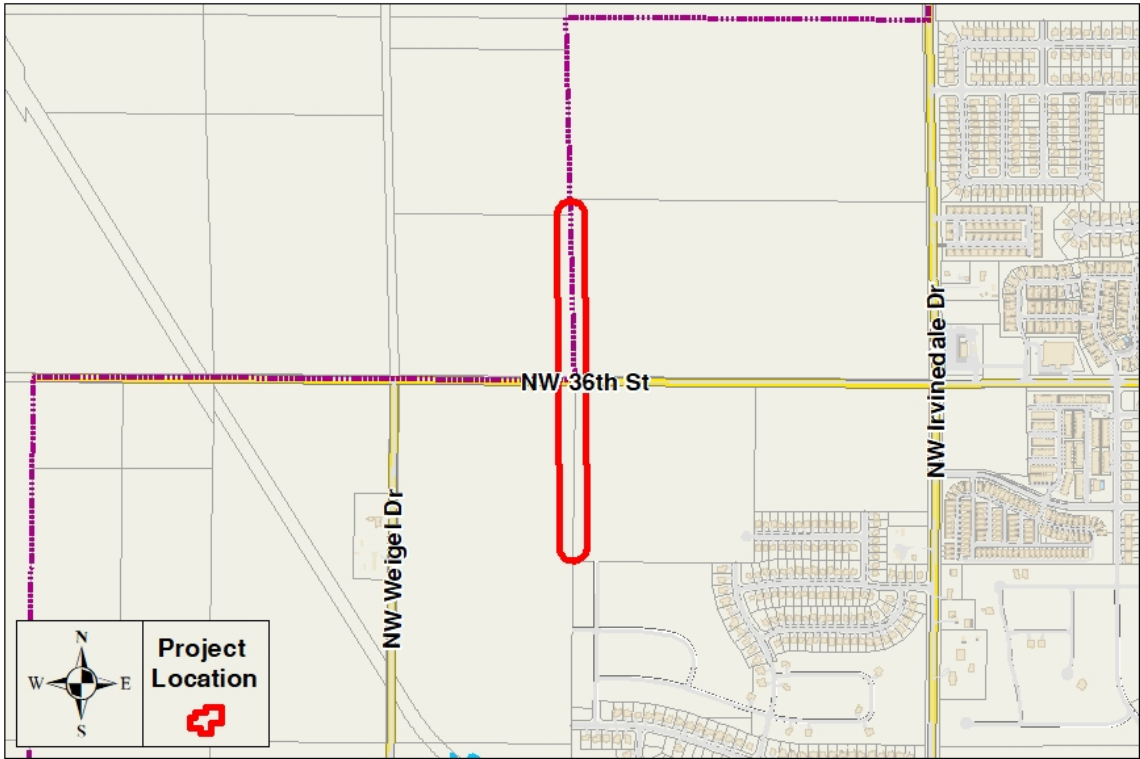
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2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design		91,000				91,000
Engineering-Construction Services			76,000			76,000
Construction Costs			770,000			770,000
Land/ROW Acquisition		14,000				14,000
Total		105,000	846,000			951,000
Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund		105,000	846,000			951,000
Total		105,000	846,000			951,000

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

City of Ankeny, Iowa

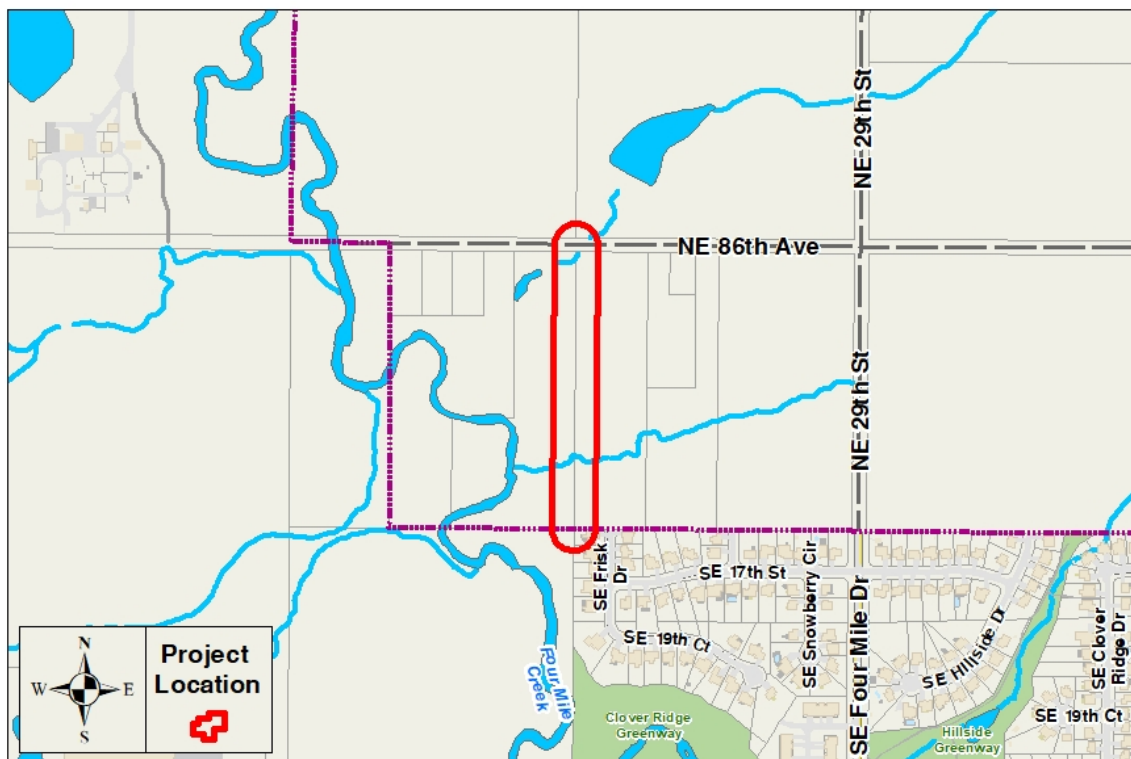
2024 *thru* 2028

Department Sewer Utility

Contact Municipal Utilities Director

Project # **SNS-22-003**

Project Name **Clover Ridge Trunk Sewer Extension**



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design		152,000				152,000
Engineering-Construction Services			152,000			152,000
Construction Costs			1,520,000			1,520,000
Land/ROW Acquisition		2,000				2,000
Total		154,000	1,672,000			1,826,000
Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund		154,000	1,672,000			1,826,000
Total		154,000	1,672,000			1,826,000

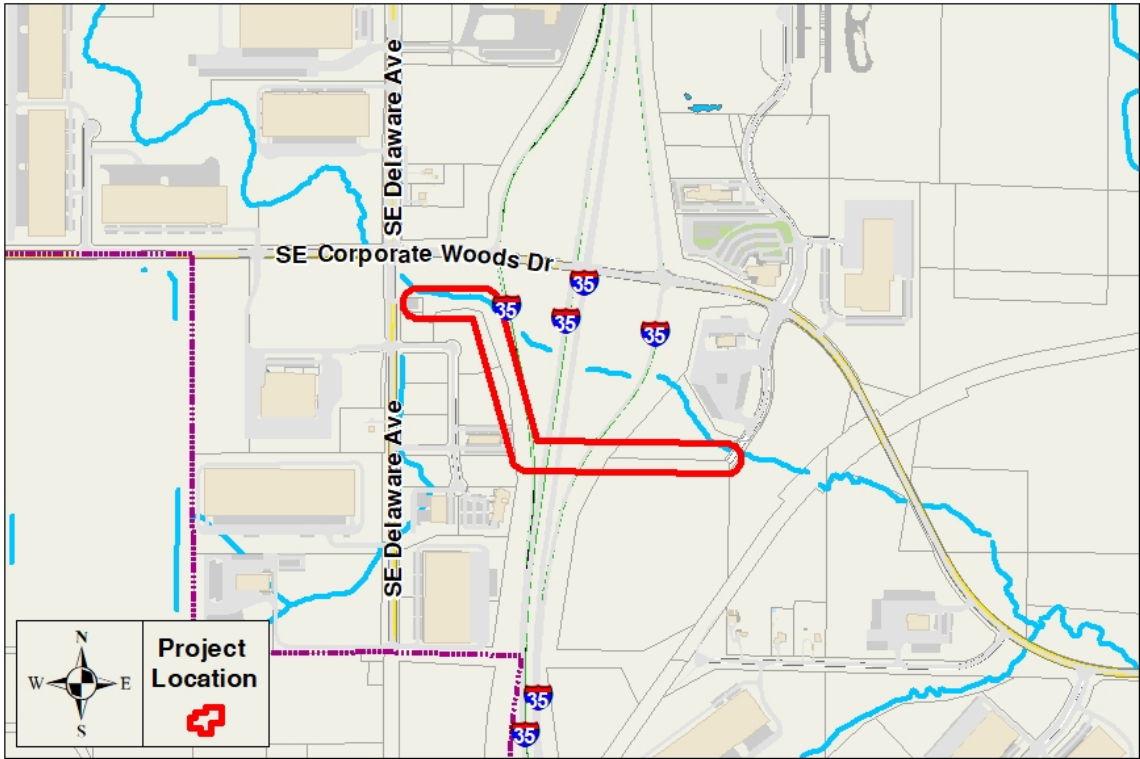
Budget Impact/Other
Since this is a new sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design			12,000			12,000
Engineering-Construction Services				10,000		10,000
Construction Costs				107,000		107,000
Land/ROW Acquisition				1,000		1,000
Total			12,000	118,000		130,000
Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund			12,000	118,000		130,000
Total			12,000	118,000		130,000

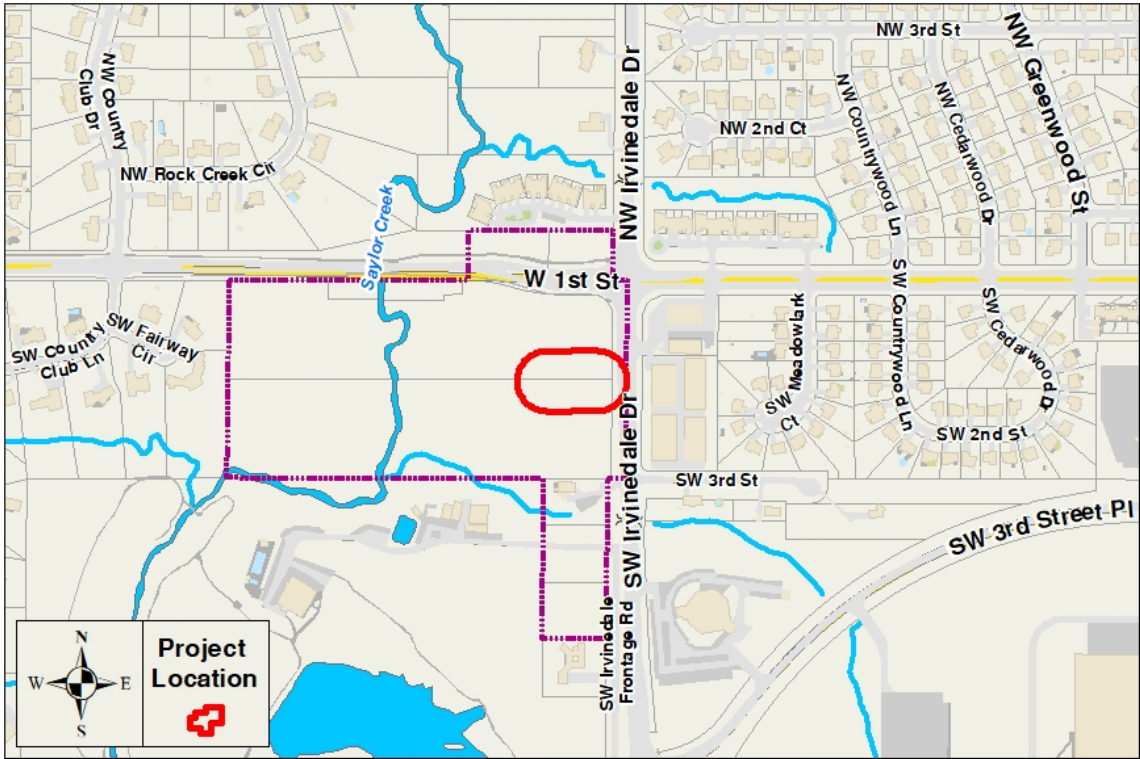
Budget Impact/Other
It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 *thru* 2028

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

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

Description

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

Justification

This project is needed for future land to be annexed and developed north of NE 18th Street. This trunk line will serve a large portion of development land north of NE 18th Street and east of NE 29th Street (county) to the City's 2040 projected growth boundary.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design				216,000		216,000
Engineering-Construction Services					180,000	180,000
Construction Costs					1,805,000	1,805,000
Land/ROW Acquisition					24,000	24,000
Total				216,000	2,009,000	2,225,000

Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund				216,000	2,009,000	2,225,000
Total				216,000	2,009,000	2,225,000

Budget Impact/Other

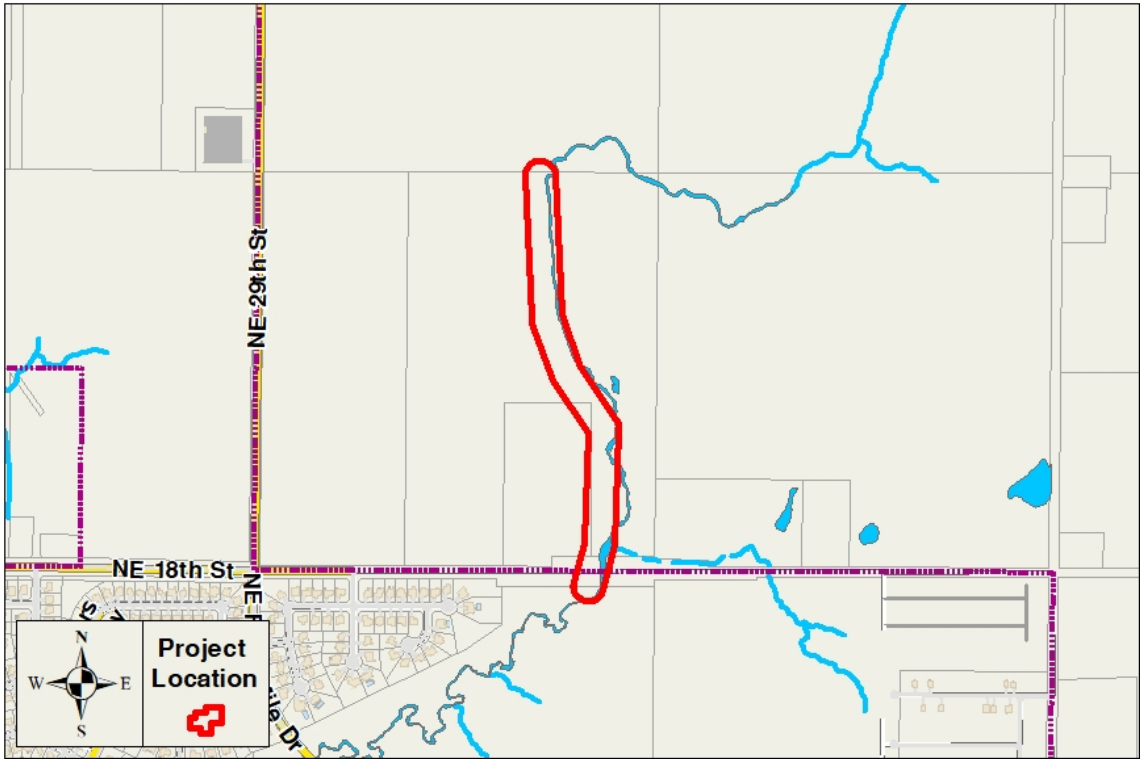
Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency of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

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

Project #	SNS-24-001
Project Name	Fire Station No. 4 Sanitary Sewer

Description

This project will construct approximately 1,950 LF of 8" sanitary sewer line from the intersection of NW 18th Street and NW Savannah Drive to the southeast corner of the Fire Station No. 4 property.

Justification

This project will be necessary if Savannah Plat 1 to the south of Fire Station No. 4 doesn't develop in 2024. If constructed, Savannah Plat 1, will provide the necessary sanitary sewer to serve Fire Station No. 4. This project is proposed in the event the developer doesn't move forward with their project and the City needs to install the sewer for proper sanitary service to Fire Station No. 4.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	130,000					130,000
Construction Costs	588,000					588,000
Land/ROW Acquisition	12,000					12,000
Total	730,000					730,000
Funding Sources	2024	2025	2026	2027	2028	Total
Sewer Fund	730,000					730,000
Total	730,000					730,000

Budget Impact/Other

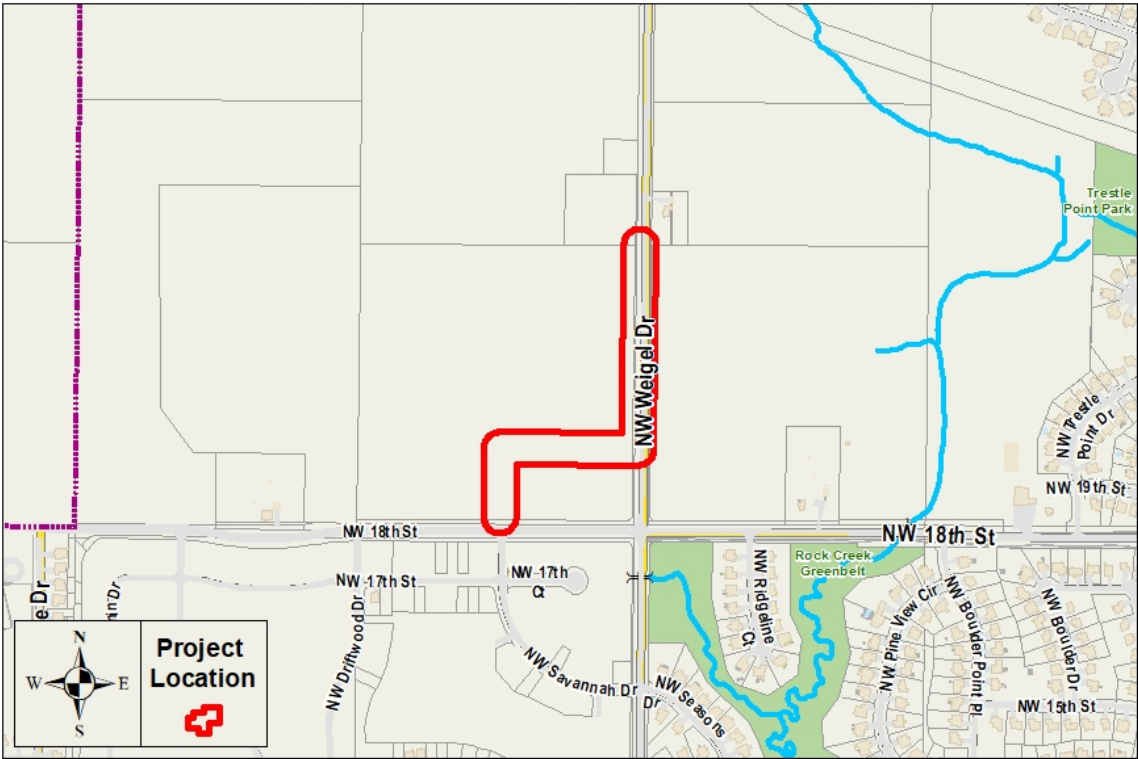
Since this is a new sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-24-001
Project Name	Fire Station No. 4 Sanitary Sewer



2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 *thru* 2028

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

Project #	SNS-24-002
Project Name	Four Mile Creek Trunk Sewer - Phase 2

Description
Install approximately 2,000 LF of 30” diameter sanitary trunk sewer from the Four Mile Creek Trunk Sewer – Phase 1 end limits to about 1,300 LF north of NE 62nd Street on the east side of North Ankeny Boulevard.

Justification
This project has become necessary due to recent development and annexations north of NE 54th Street. This trunk line will serve a large portion of developable land north of NE 54th Street.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	150,000					150,000
Construction Costs	2,100,000					2,100,000
Land/ROW Acquisition	25,000					25,000
Total	2,275,000					2,275,000
Funding Sources	2024	2025	2026	2027	2028	Total
Capital Project Fund	500,000					500,000
Sewer Fund	1,775,000					1,775,000
Total	2,275,000					2,275,000

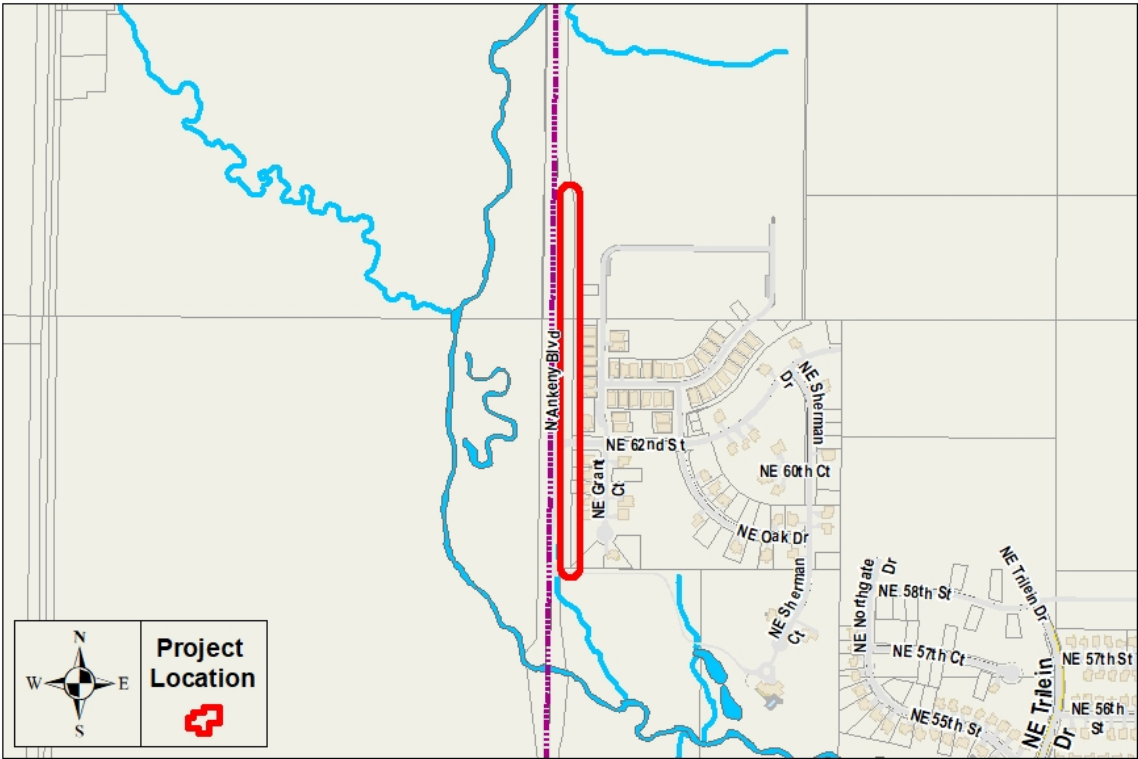
Budget Impact/Other
Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. Being a large diameter trunk sewer, however, this would 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.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-24-002
Project Name	Four Mile Creek Trunk Sewer - Phase 2



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

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 pipes, structures, channels, etc. Specific projects, listed in order of priority, for 2024 include:

1. Replace storm sewer intakes and cross-run storm sewer pipes on SW Des Moines Street, at NW 9th Street and NW School Street intersection and at NW 5th Street and NW School Street intersection – \$155,000
2. Drainage improvements on North Creek Trail near North Creek Park – \$20,000
3. Repairs to a storm sewer outlet to Four Mile Creek – \$30,000
4. Maintenance and storm sewer improvements along Saylor Creek near Vintage Business Park and in the Vintage Greenway – \$200,000
5. Storm water conservation project to be designed and constructed in 2024 – \$10,000
6. Minor storm water management and storm sewer improvements and repairs (locations TBD) – \$35,000

Justification

The purpose of these projects is to repair or improve stormwater infrastructure and associated areas to manage storm water more effectively, stabilize and repair areas of erosion or structural issues, and/or address public safety concerns. The open cut repairs will repair or replace failed or damaged storm sewers and/or structures. 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	2024	2025	2026	2027	2028	Total
Engineering-Design	20,000	60,000	60,000	60,000	70,000	270,000
Construction Costs	430,000	390,000	390,000	390,000	430,000	2,030,000
Total	450,000	450,000	450,000	450,000	500,000	2,300,000
Funding Sources	2024	2025	2026	2027	2028	Total
Capital Project Fund	50,000	50,000				100,000
Storm Water Fund	400,000	400,000	450,000	450,000	500,000	2,200,000
Total	450,000	450,000	450,000	450,000	500,000	2,300,000

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	2024	2025	2026	2027	2028	Total
Maintenance Costs	-10,000	-10,000	-12,000	-12,000	-14,000	-58,000
Total	-10,000	-10,000	-12,000	-12,000	-14,000	-58,000

2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility

Contact City Engineer

Project # STM-00-001

Project Name Annual Storm Water Replacement Program



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2024 - 2028 Capital Improvement Program

2024 thru 2028

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design	90,000					90,000
Engineering-Construction Services		30,000				30,000
Construction Costs		415,000				415,000
Total	90,000	445,000				535,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water Abated	90,000	445,000				535,000
Total	90,000	445,000				535,000

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

Budget Items	2024	2025	2026	2027	2028	Total
Maintenance Costs			-500	-500	-500	-1,500
Total			-500	-500	-500	-1,500

City of Ankeny, Iowa

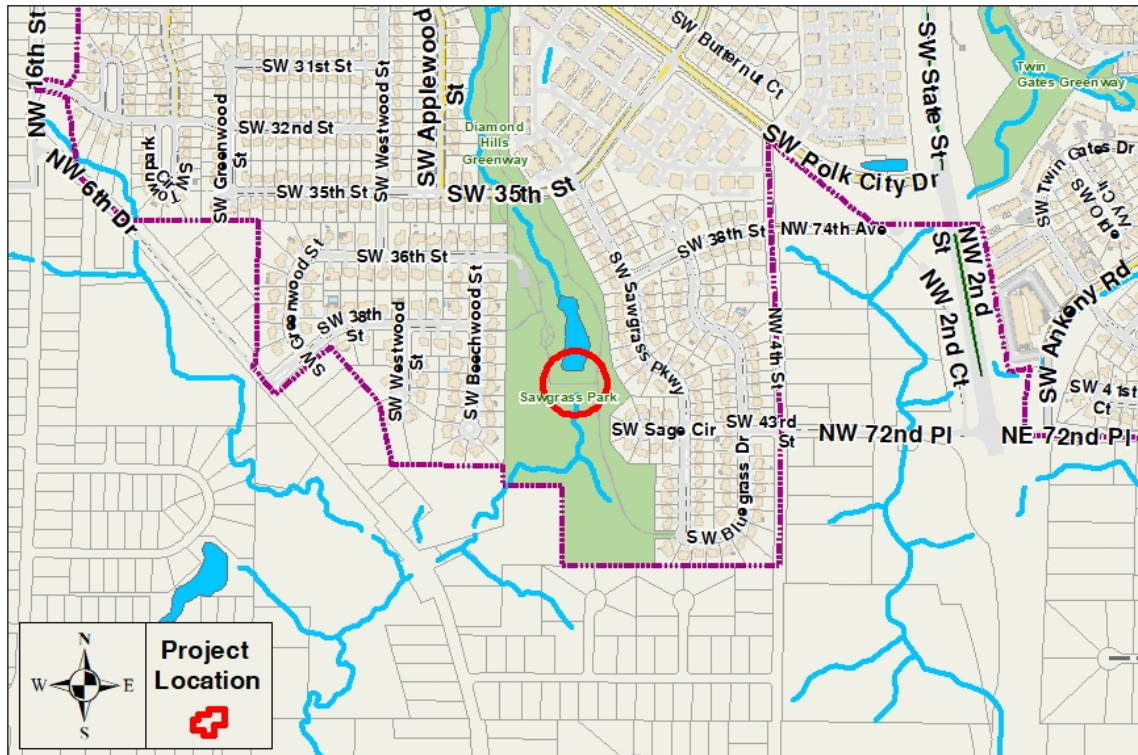
2024 *thru* 2028

Department Storm Water Utility

Contact City Engineer

Project # **STM-19-004**

Project Name Sawgrass Park Dam Improvements



2024 - 2028 Capital Improvement Program

2024 thru 2028

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 and Tributary 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 and 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 and significant invasive tree growth; reshaping of the channel to establish stable slopes; reconnection to the floodplain; repairing and modifying an existing stormwater detention basin; 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 gully erosion and a horseshoe meander, repair and modify a storm water detention basin, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the permitting and final design in 2024, and construction scheduled in 2025 and 2026. This project is included in a Polk County led NRCS WFPO study to be completed in 2024, which is expected to result in 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design	130,000					130,000
Engineering-Construction Services		160,000	145,000			305,000
Construction Costs		2,000,000	1,120,000			3,120,000
Total	130,000	2,160,000	1,265,000			3,555,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water Abated	130,000	1,040,000	596,300			1,766,300
Other Grants		1,120,000	668,700			1,788,700
Total	130,000	2,160,000	1,265,000			3,555,000

Budget Impact/Other

After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure. Maintenance costs associated with the native vegetation however, will increase for several years after the project due to the labor and materials required to fully establish the native vegetation. The maintenance costs associated with establishing the native vegetation should reduce significantly three (3) years post construction.

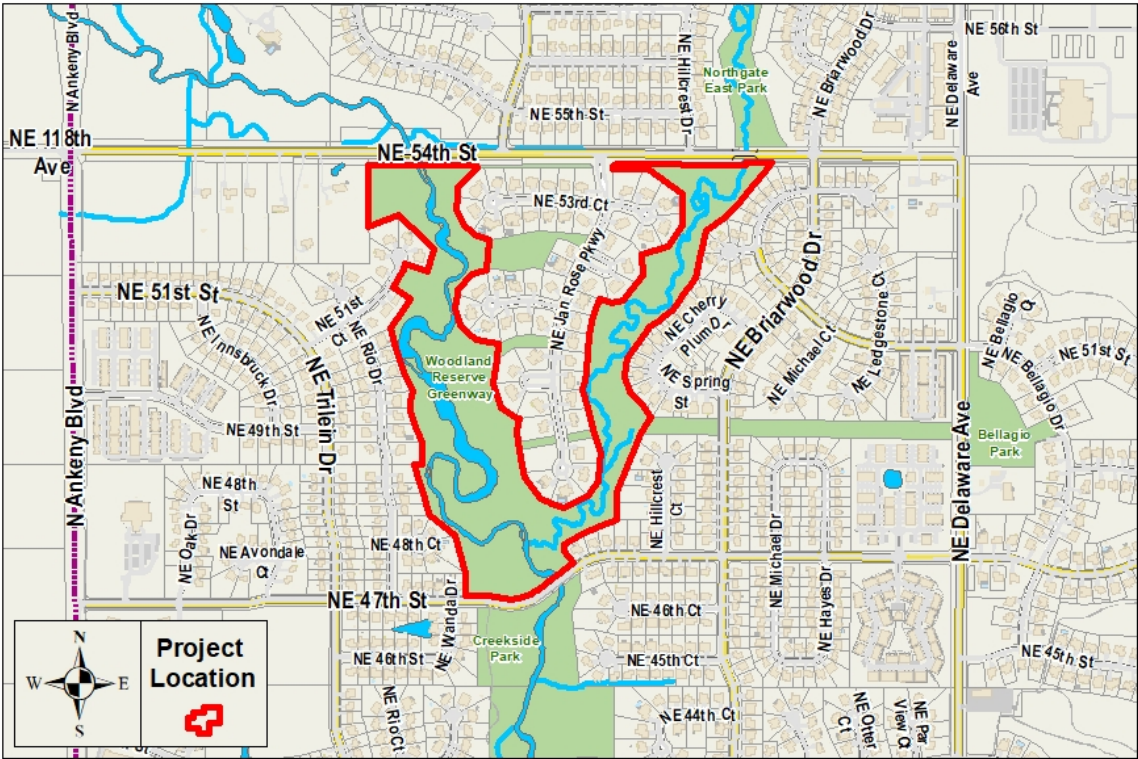
Budget Items	2024	2025	2026	2027	2028	Total
Maintenance Costs				20,000	20,000	40,000
Total				20,000	20,000	40,000

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 thru 2028

Department Storm Water Utility
Contact City Engineer

Project #	STM-20-001
Project Name	Four Mile Creek and Tributary Stabilization



2024 - 2028 Capital Improvement Program

2024 thru 2028

City of Ankeny, Iowa

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

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

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

Justification
The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-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 construction in 2024 and 2025. The proposed storm sewer improvements on SE 3rd Street will need to be coordinated with the Municipal Utilities Department's proposed SE 3rd Street Trunk Sanitary Sewer replacement, between South Ankeny Boulevard and SE Sharon Drive, and water main replacement along SE 3rd Street. The 2024 and 2025 construction costs include approximately \$160,000 of water main improvements.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	40,000	15,000				55,000
Construction Costs	900,000	400,000				1,300,000
Total	940,000	415,000				1,355,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water Abated	540,000	15,000				555,000
Storm Water Fund	400,000	400,000				800,000
Total	940,000	415,000				1,355,000

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

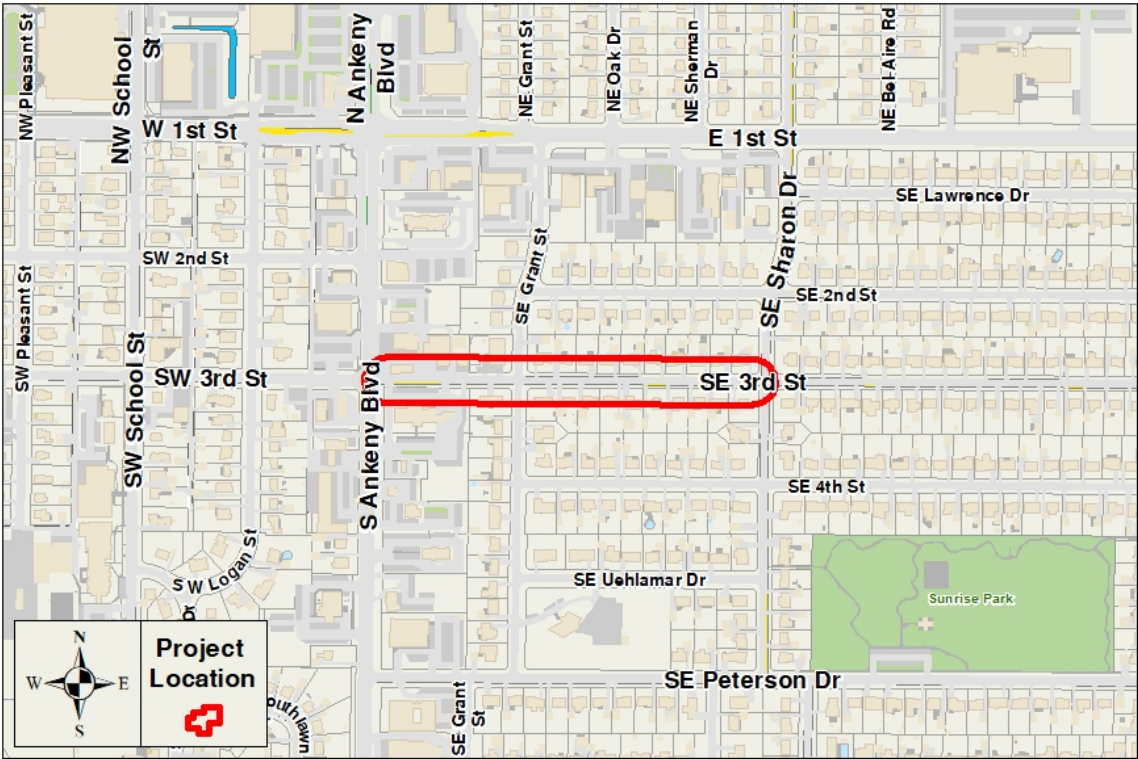
Budget Items	2024	2025	2026	2027	2028	Total
Maintenance Costs			-2,000	-2,000	-2,000	-6,000
Total			-2,000	-2,000	-2,000	-6,000

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility
Contact City Engineer

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project # STM-21-001

Project Name SE 3rd St Area Collection Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the SE 3rd Street area, which is located south of East 1st Street, north of SE Peterson Drive, east of South Ankeny Boulevard, and west of SE Trilein Drive. The proposed storm sewer infrastructure improvements will include footing drain/sump collector lines, storm sewer pipe, and associated intakes, utility accesses, and related pavement removal and replacement necessary to install collection storm sewer in the area. The proposed improvements schedule will include constructing new storm sewer along SE 4th Street from SE Grant Street to SE Sharon Drive and along SE Lawrence Drive from SE Sharon Drive to SE Trilein Drive in 2026. New storm sewer along SE Uhlamar Drive from SE Grant Street to SE Sharon Drive and along SE 2nd Street from SE Sharon Drive to SE Trilein Drive is being proposed for construction in 2027.

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 2025 through 2026 and construction of the projects in 2026 through 2027. The construction cost estimate for 2026 includes \$100,000 of water main replacement (upgrade existing 4" to new 8") along SE 4th Street.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design		190,000	210,000			400,000
Construction Costs			1,210,000	1,330,000		2,540,000
Total		190,000	1,420,000	1,330,000		2,940,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water Abated		190,000	1,020,000	930,000		2,140,000
Storm Water Fund			400,000	400,000		800,000
Total		190,000	1,420,000	1,330,000		2,940,000

Budget Impact/Other

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

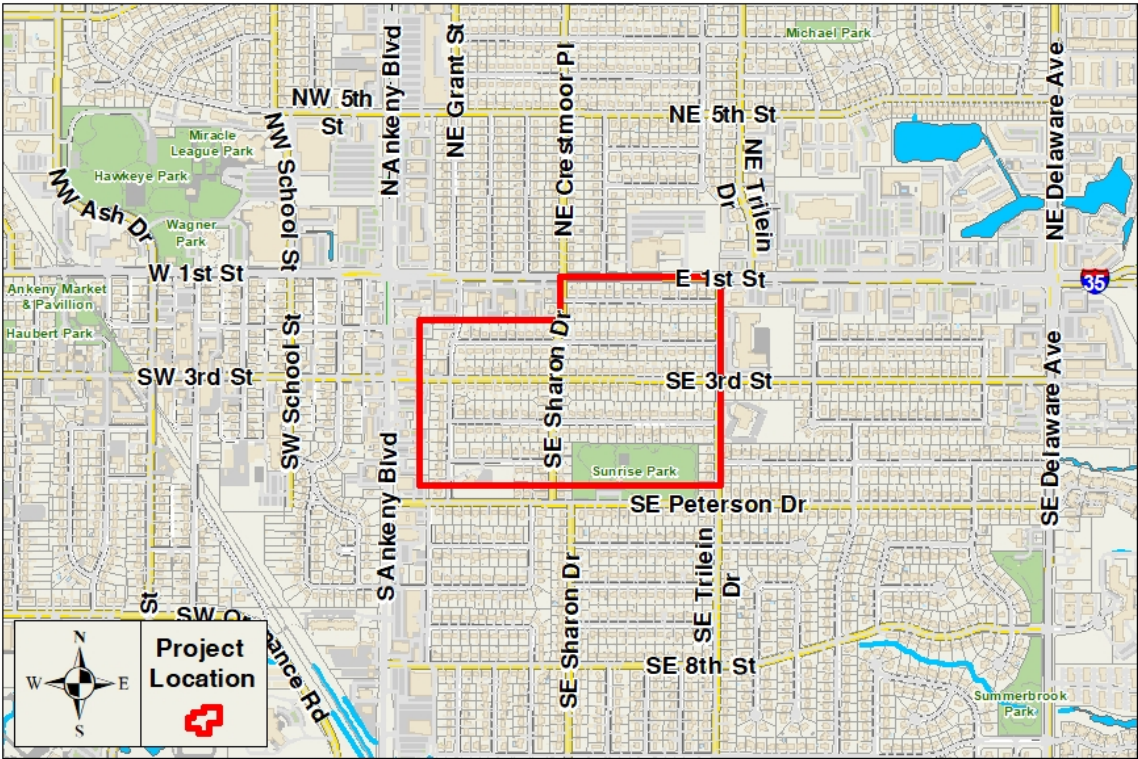
Budget Items	2024	2025	2026	2027	2028	Total
Maintenance Costs				-1,000	-2,000	-3,000
Total				-1,000	-2,000	-3,000

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 thru 2028

Department Storm Water Utility
Contact City Engineer

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

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

Description

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

Justification

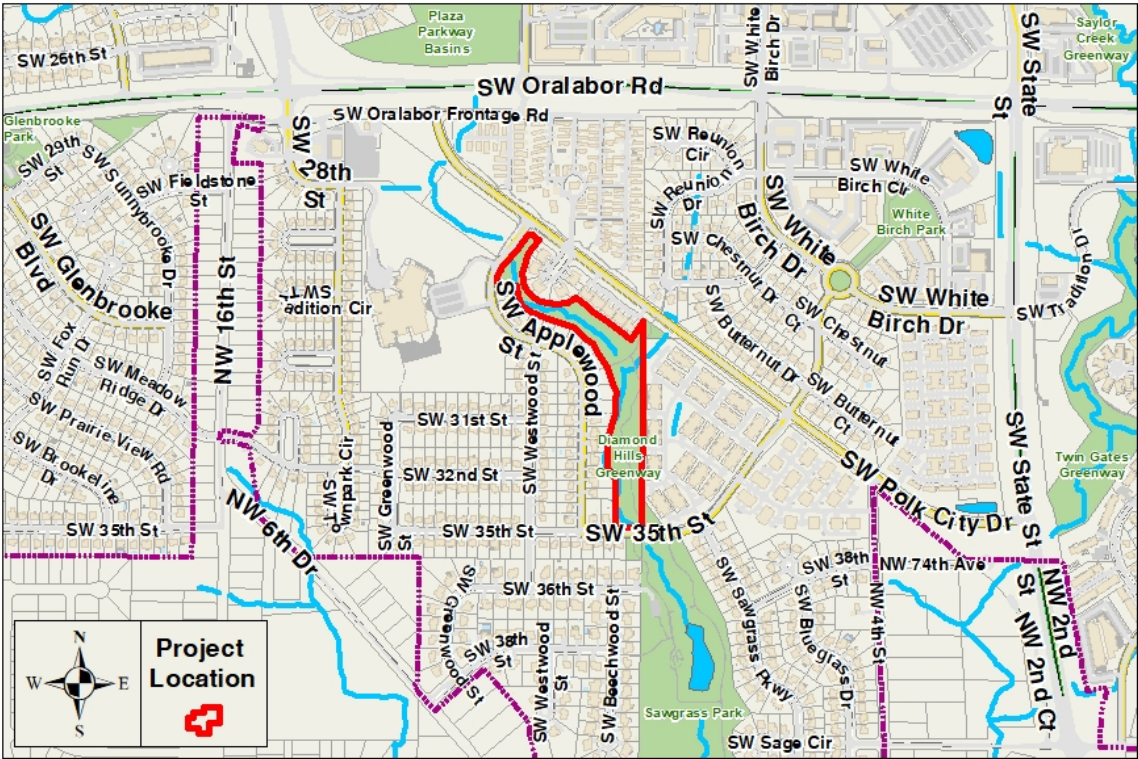
The purpose of this project is to stabilize the channel, repair gully erosion, and extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the concept study, preliminary design, and survey in 2025, design in 2026, and construction in 2027.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design		75,000	75,000			150,000
Engineering-Construction				80,000		80,000
Services						
Construction Costs				1,530,000		1,530,000
Total		75,000	75,000	1,610,000		1,760,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water		75,000	75,000	1,610,000		1,760,000
Abated						
Total		75,000	75,000	1,610,000		1,760,000

Budget Impact/Other

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

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

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

Description

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

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey and preliminary design to be completed in 2027, permitting to be completed in 2027 through 2028, final design in 2028, and construction in 2029. This project is included in a Polk County led NRCS WFPO study to be completed in 2024, which is expected to result in 50% NRCS funding for design (not including permitting), 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project. The construction cost estimate is \$1,320,000.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design					150,000	150,000
Survey/Preliminary Analysis				160,000		160,000
Total				160,000	150,000	310,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water				95,000	90,000	185,000
Abated						
Other Grants				65,000	60,000	125,000
Total				160,000	150,000	310,000

Budget Impact/Other

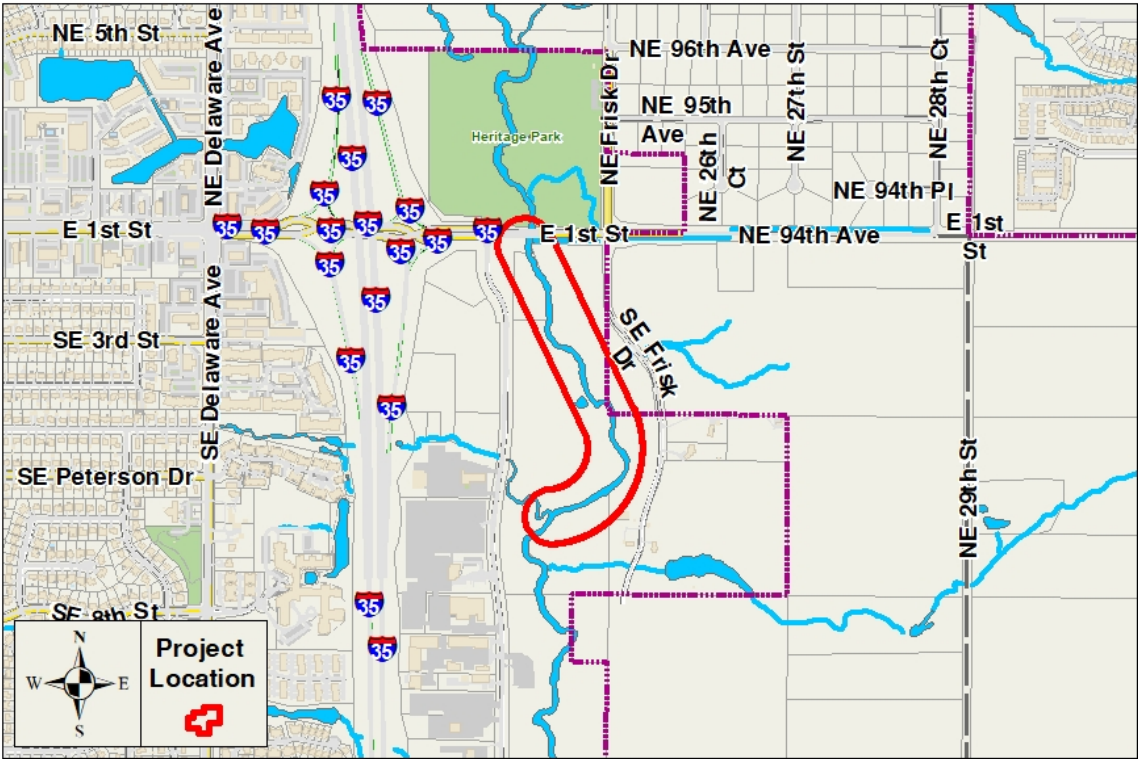
After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility
Contact City Engineer

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



2024 - 2028 Capital Improvement Program

2024 thru 2028

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

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

Description

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

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey and preliminary design to be completed in 2027, permitting to be completed in 2027 through 2028, final design in 2028, and construction in 2029. This project is included in a Polk County led NRCS WFPO study to be completed early 2023, which is expected to result in 50% NRCS funding for design (not including permitting), 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project. The construction cost estimate is \$2,265,000.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design					260,000	260,000
Survey/Preliminary Analysis				270,000		270,000
Total				270,000	260,000	530,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water				165,000	155,000	320,000
Abated						
Other Grants				105,000	105,000	210,000
Total				270,000	260,000	530,000

Budget Impact/Other

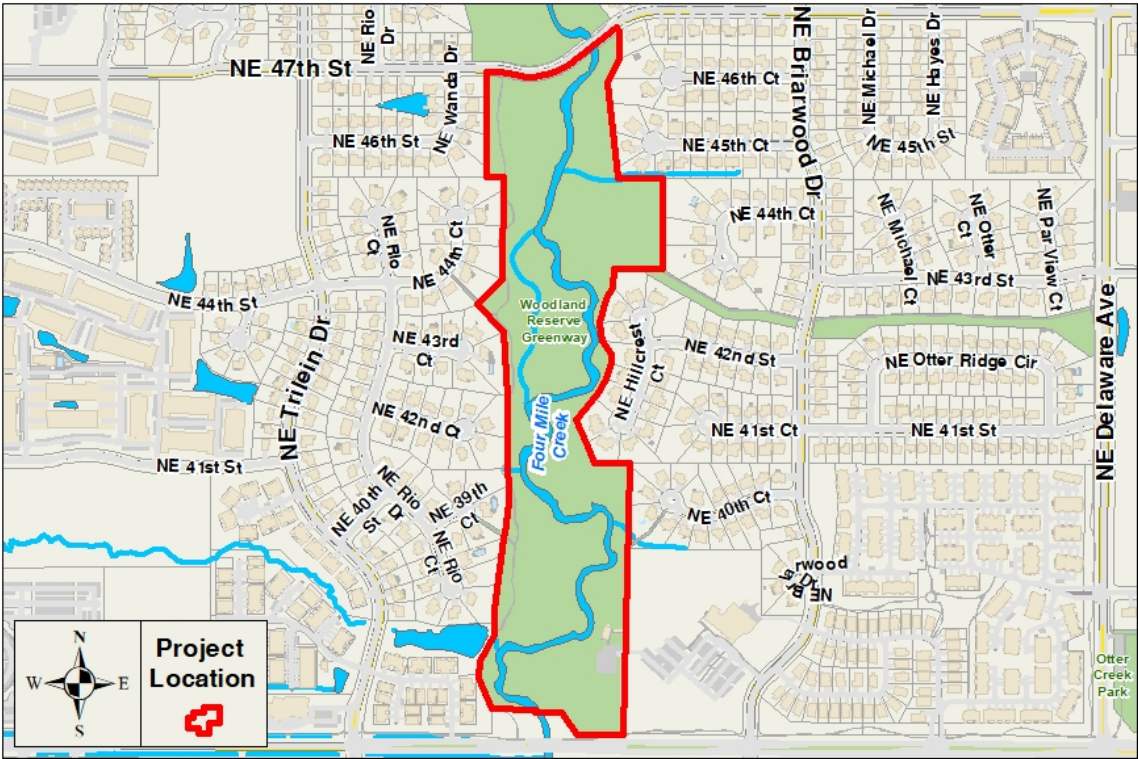
After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 thru 2028

Department Storm Water Utility
Contact City Engineer

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

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

Description

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

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the concept study, survey and preliminary design to be completed in 2026; and the final design and permitting in 2027. Construction (including construction engineering) is anticipated to occur in 2028, and the estimated construction cost is \$3,400,000.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design				210,000		210,000
Engineering-Construction Services					400,000	400,000
Construction Costs					3,000,000	3,000,000
Survey/Preliminary Analysis			190,000			190,000
Total			190,000	210,000	3,400,000	3,800,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water Abated			190,000	210,000	3,000,000	3,400,000
Storm Water Fund					400,000	400,000
Total			190,000	210,000	3,400,000	3,800,000

Budget Impact/Other

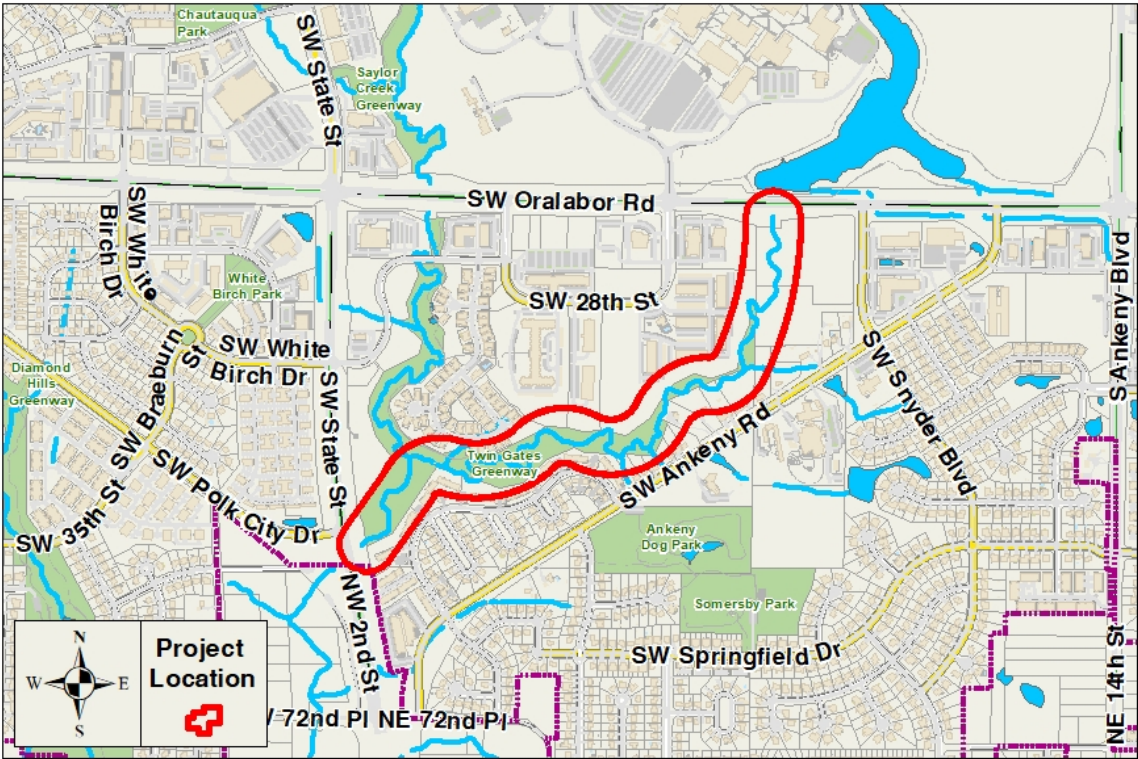
After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility
Contact City Engineer

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



2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 thru 2028

Department Storm Water Utility
Contact City Engineer
Type Improvement
Useful Life 20 years
Category Storm Water

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

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

Justification
The purpose of this project is to stabilize the channel, repair gully erosion, extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey and preliminary design to be completed in 2027, permitting to be completed in 2027 through 2028, final design in 2028, and construction in 2029. This project is included in a Polk County led NRCS WFPO study to be completed in 2024, which is expected to result in 50% NRCS funding for design (not including permitting), 75% NRCS funding for construction observation, and 50% NRCS funding for construction of the project. The construction cost estimate is \$770,000.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design					90,000	90,000
Survey/Preliminary Analysis				95,000		95,000
Total				95,000	90,000	185,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water				45,000	40,000	85,000
Abated						
Other Grants				50,000	50,000	100,000
Total				95,000	90,000	185,000

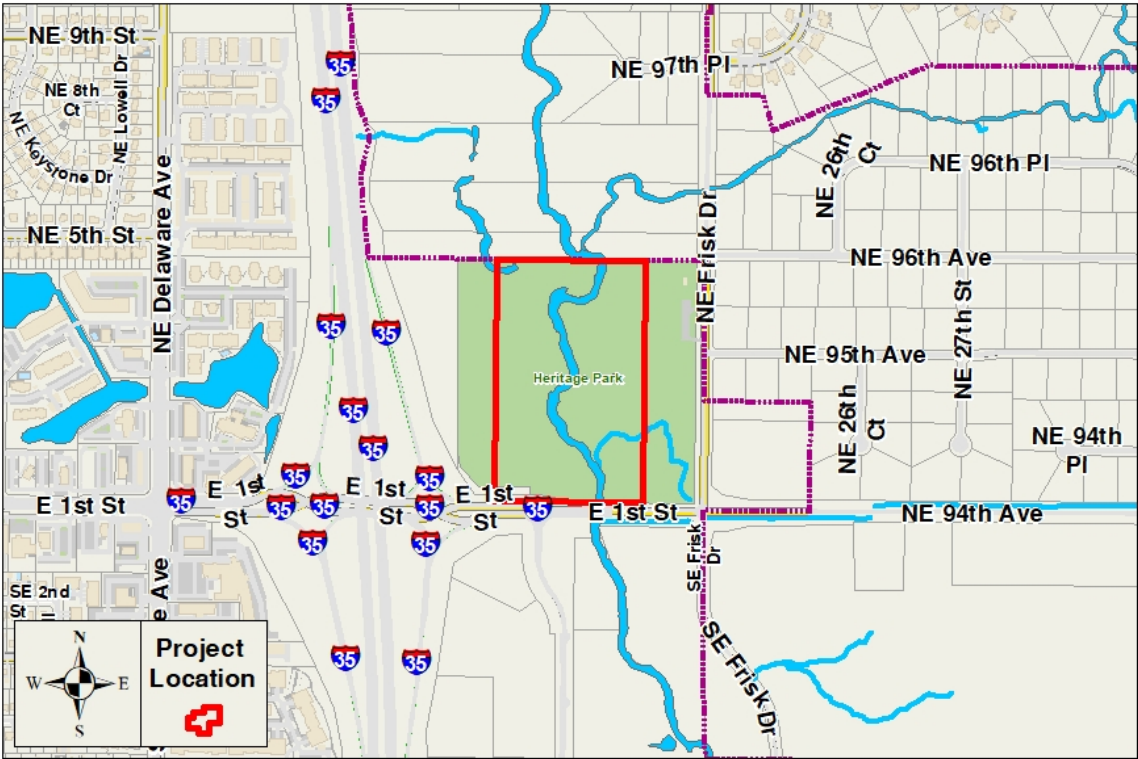
Budget Impact/Other
After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility
Contact City Engineer

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

Project #	STM-24-001
Project Name	NW 17th St Storm Sewer and Pavement Improvements

Description
Replace deteriorated storm sewer intakes and storm sewer pipes on NW 17th Street between the 2400 block of NW 17th Street and the 1300 block of NW Linden Street. Pavement reconstruction with rock subbase and longitudinal subdrains will also be included within the limits of the storm sewer improvements.
The breakdown of the estimated project costs are as follows:
•\$390,000 (approximately 42%) of the total project cost is associated with the stormwater infrastructure improvements.
•\$530,000 (approximately 58%) of the total project cost is associated with the street pavement infrastructure improvements.

Justification
The storm sewer intake structures and storm sewer pipes within the project limits have been identified by City staff as needing to be replaced in the near term. Many of the structures have significant cracks, voids, and eroded bases. In addition, the pavement within the project limits was identified by the Iowa Pavement Management Program (IPMP) 2021 City PCI Ratings as being in “poor” condition. It is assumed the engineering design and construction inspection for the project will be primarily completed by Public Works Stormwater Division staff, with some work (such as construction surveying and staking) being completed by an engineering consultant.

Expenditures	2024	2025	2026	2027	2028	Total
Construction Costs		890,000				890,000
Survey/Preliminary Analysis	20,000	10,000				30,000
Total	20,000	900,000				920,000

Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds	11,600	522,000				533,600
G.O. Bonds - Storm Water Abated	8,400	378,000				386,400
Total	20,000	900,000				920,000

Budget Impact/Other
The storm sewer replacement work will reduce the annual maintenance costs for the City because the Public Works Department will not have to repair existing storm sewer intakes and pipes. Also, the pavement replacement 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.

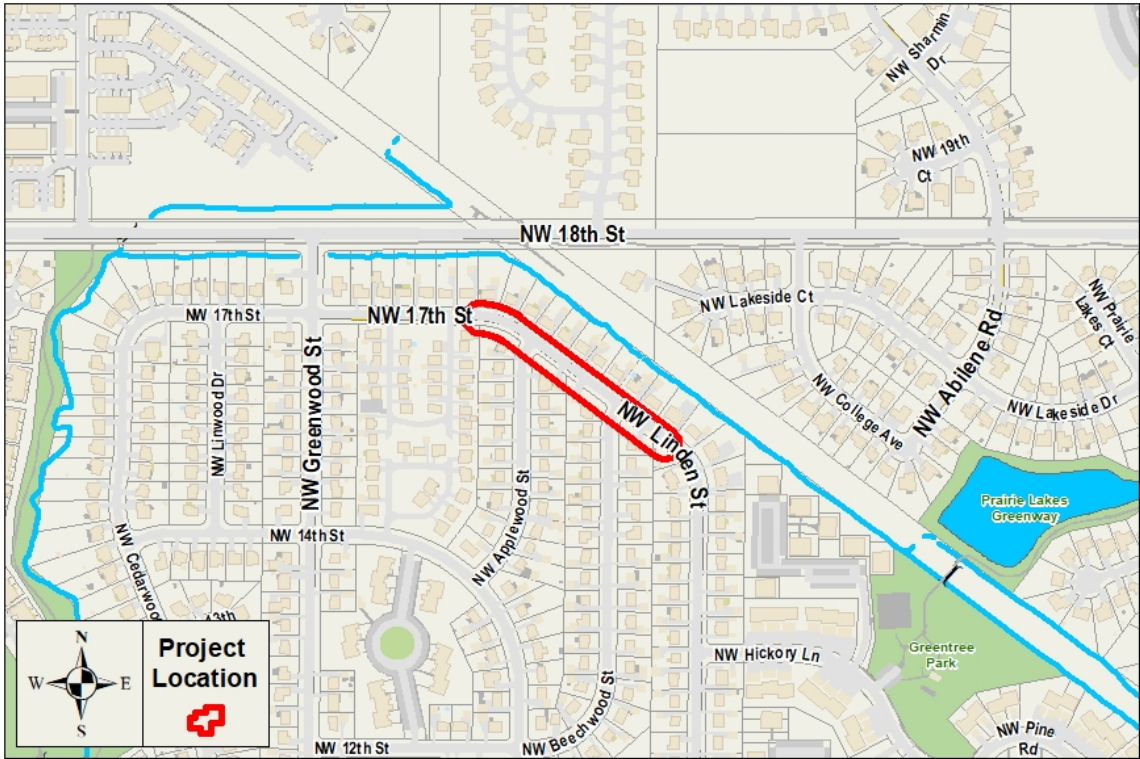
Budget Items	2024	2025	2026	2027	2028	Total
Maintenance Costs			-6,000	-6,000	-6,000	-18,000
Total			-6,000	-6,000	-6,000	-18,000

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility
Contact City Engineer

Project #	STM-24-001
Project Name	NW 17th St Storm Sewer and Pavement Improvements



2024 - 2028 Capital Improvement Program

2024 thru 2028

City of Ankeny, Iowa

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

Project #	STM-24-002
Project Name	SW Des Moines Street Utility Improvements

Description

Construction of storm sewer infrastructure improvements along SW Des Moines Street between SW Kenworthy Drive and SW Ordinance Road. The project will include replacing the existing sanitary sewer and constructing a new sanitary sewer at a lower depth; replacing the existing 4" water main with 8" water main; constructing footing drain/sump pump collector lines; and replacing the existing 30' wide street with new 31' wide PCC pavement and associated driveway and sidewalk replacement. The proposed project will be coordinated with the Municipal Utilities Department.

Justification

The primary purpose of this project is to replace the existing storm sewer infrastructure that was constructed in the 1940s and 1950s and has significantly deteriorated. Adding sump pump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. Replacing the existing sanitary sewer at a lower depth will help reduce maintenance issues with the sanitary sewer. Replacing the existing water main with 8" PVC will provide adequate fire flows and help reduce maintenance issues. The existing right-of-way along the project corridor varies from 49' to 58'. Additional right-of-way would need to be acquired to have a uniform right-of-way width. The pavement within the project limits was identified by the Iowa Pavement Management Program (IPMP) 2021 City PCI Ratings as being in "poor" condition. The proposed project schedule includes design work in 2024, with construction in 2025 (assumed 75% of the overall) and 2026 (assumed 25% of the overall). The construction cost estimate includes approximately \$300,000 for storm sewer improvements, \$300,000 for sanitary sewer improvements, and \$300,000 for water main improvements. The estimated cost to replace the street, sidewalks, and driveways is approximately 35% of the total estimated construction cost. The funding breakdown proposed for this project is 33.33% stormwater, 33.34% sanitary sewer, and 33.33% water funds.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design	190,000					190,000
Engineering-Construction Services		90,000	30,000			120,000
Construction Costs		1,425,000	475,000			1,900,000
Land/ROW Acquisition	45,000					45,000
Total	235,000	1,515,000	505,000			2,255,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - Storm Water Abated	78,333	505,000	168,333			751,666
Sewer Fund	78,334	505,000	168,334			751,668
Water Fund	78,333	505,000	168,333			751,666
Total	235,000	1,515,000	505,000			2,255,000

Budget Impact/Other

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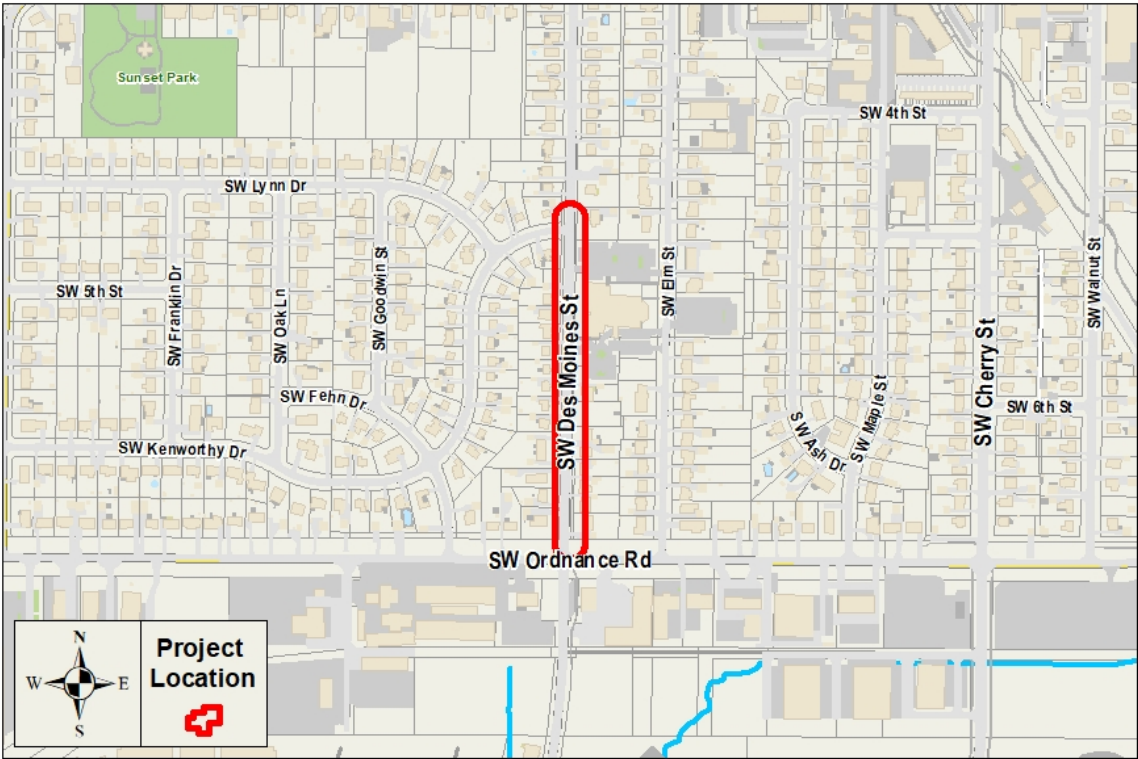
Budget Items	2024	2025	2026	2027	2028	Total
Maintenance Costs				-9,000	-9,000	-18,000
Total				-9,000	-9,000	-18,000

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Storm Water Utility
Contact City Engineer

Project #	STM-24-002
Project Name	SW Des Moines Street Utility Improvements



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-00-001

Project Name Annual Water Main Replacement Program

Type Improvement

Useful Life 40 years

Category Water Mains

Description

Annual allocation of capital improvement funds for repair and replacement of water utility infrastructure and the Water Fund's portion of the neighborhood projects.

Specific projects for 2024 to 2028 include the following:

- Development water main oversizing: 2024 to 2028 – \$75,000

- 1/3 NW Northlawn Area Utility Improvements (2 of 4 phases remaining):

- o2024 - \$600,000 (Phase 3 construction) and \$25,000 (Phase 3 construction engineering) and \$25,000 (Phase 4 design engineering)

- o2025 - \$650,000 (Phase 4 construction) and \$25,000 (Phase 4 construction engineering)

- 1/3 Westlawn Place Area Utility Improvements (number of phases TBD, potentially 6 to 8):

- o2024 - \$100,000 (stormwater study, survey, and preliminary conceptual design)

- o2025 - \$50,000 (final conceptual design and Phase 1 design engineering)

- o2026 - \$700,000 (Phase 1 construction) and \$25,000 (Phase 1 construction engineering) and \$25,000 (Phase 2 design engineering)

- o2027 - \$750,000 (Phase 2 construction) and \$25,000 (Phase 2 construction engineering) and \$25,000 (Phase 3 design engineering)

- o2028 - \$800,000 (Phase 3 construction) and \$25,000 (Phase 3 construction engineering) and \$25,000 (Phase 4 design engineering)

Justification

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design	25,000	50,000	25,000	25,000	25,000	150,000
Engineering-Construction Services	25,000	25,000	25,000	25,000	25,000	125,000
Construction Costs	675,000	725,000	775,000	825,000	875,000	3,875,000
Survey/Preliminary Analysis	100,000					100,000
Total	825,000	800,000	825,000	875,000	925,000	4,250,000

Funding Sources	2024	2025	2026	2027	2028	Total
Capital Project Fund	125,000	75,000	75,000	100,000	125,000	500,000
Water Fund	700,000	725,000	750,000	775,000	800,000	3,750,000
Total	825,000	800,000	825,000	875,000	925,000	4,250,000

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	2024	2025	2026	2027	2028	Total
Utilities	400	400	400	400	400	2,000
Total	400	400	400	400	400	2,000

2024 - 2028 Capital Improvement Program

City of Ankeny, Iowa

2024 *thru* 2028

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

2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Other Costs	604,000					604,000
Total	604,000					604,000
Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds	604,000					604,000
Total	604,000					604,000

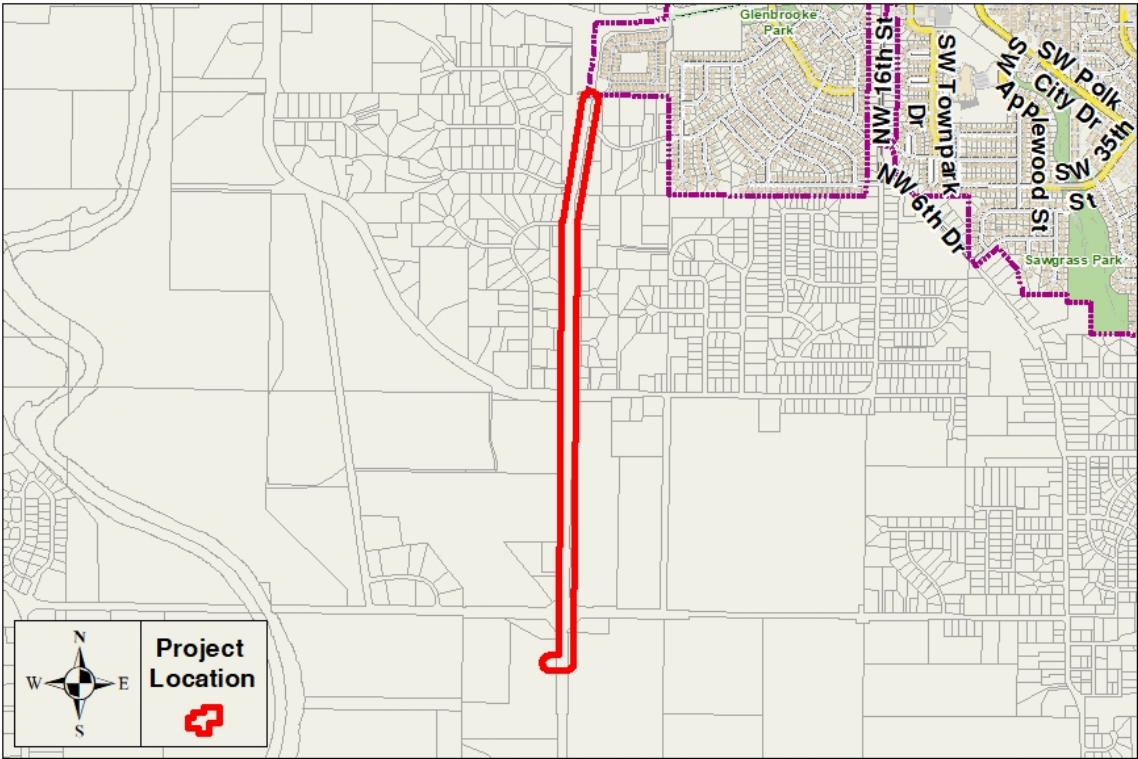
Budget Impact/Other
Additional source capacity for future growth and water demands. Since we are purchasing the remaining capacity within the existing 24" water main, there are no expected costs from an operational impact.

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

DepartmentWater Utility

ContactMunicipal Utilities Director

TypeNew Construction

Useful Life40 years

CategoryWater Mains

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

Description
Install approximately 1,850 LF of 16" water main extension along the west side of South Ankeny Boulevard from just north of SW Ordnance Road to SE Peterson 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 and are undersized. Construction of this transmission main will help maintain system pressure and reduce maintenance issues within the service area and provide a more reliable water source to area residents.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design			128,000			128,000
Engineering-Construction Services				100,000		100,000
Construction Costs				1,072,000		1,072,000
Total			128,000	1,172,000		1,300,000
Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds			128,000	1,172,000		1,300,000
Total			128,000	1,172,000		1,300,000

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

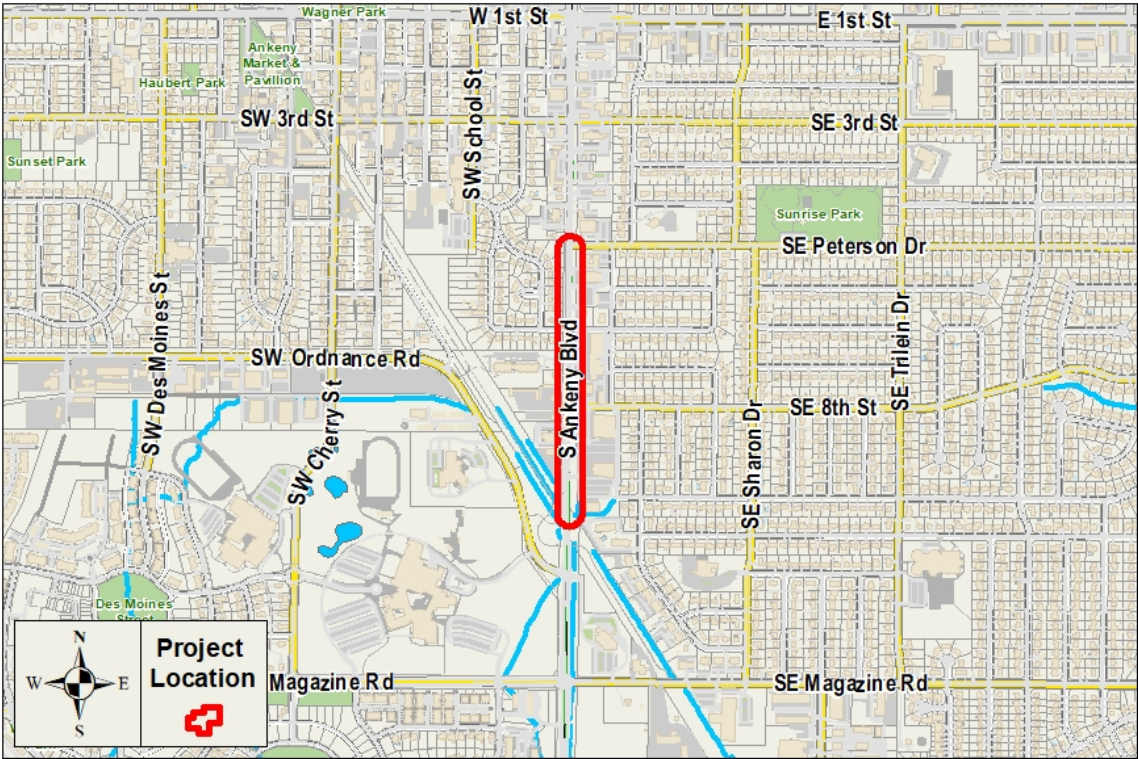
Budget Items	2024	2025	2026	2027	2028	Total
Utilities				980		980
Total				980		980

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 thru 2028

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 Ordnance Road Water Main

Description

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

Justification

The existing 4" water main within the area is undersized by current standards. Installation of the larger water main, along with connection to surrounding main(s) provides a reliable looped system and helps to maintain better distribution system pressures and fire flows within the area. This project will be coupled with a parking improvement project within the Uptown area which includes improvements along SW Walnut Street. The cost for these improvements is estimated at \$320,000.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design	295,000					295,000
Engineering-Construction Services		196,000				196,000
Construction Costs		1,984,000				1,984,000
Total	295,000	2,180,000				2,475,000
Funding Sources	2024	2025	2026	2027	2028	Total
G.O. Bonds - TIF Abated		320,000				320,000
Water Revenue Bonds	295,000	1,860,000				2,155,000
Total	295,000	2,180,000				2,475,000

Budget Impact/Other

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

Budget Items	2024	2025	2026	2027	2028	Total
Utilities			255			255
Total			255			255

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

Description

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

Justification

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	200,000					200,000
Construction Costs	2,000,000					2,000,000
Land/ROW Acquisition	100,000					100,000
Total	2,300,000					2,300,000

Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds	2,300,000					2,300,000
Total	2,300,000					2,300,000

Budget Impact/Other

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

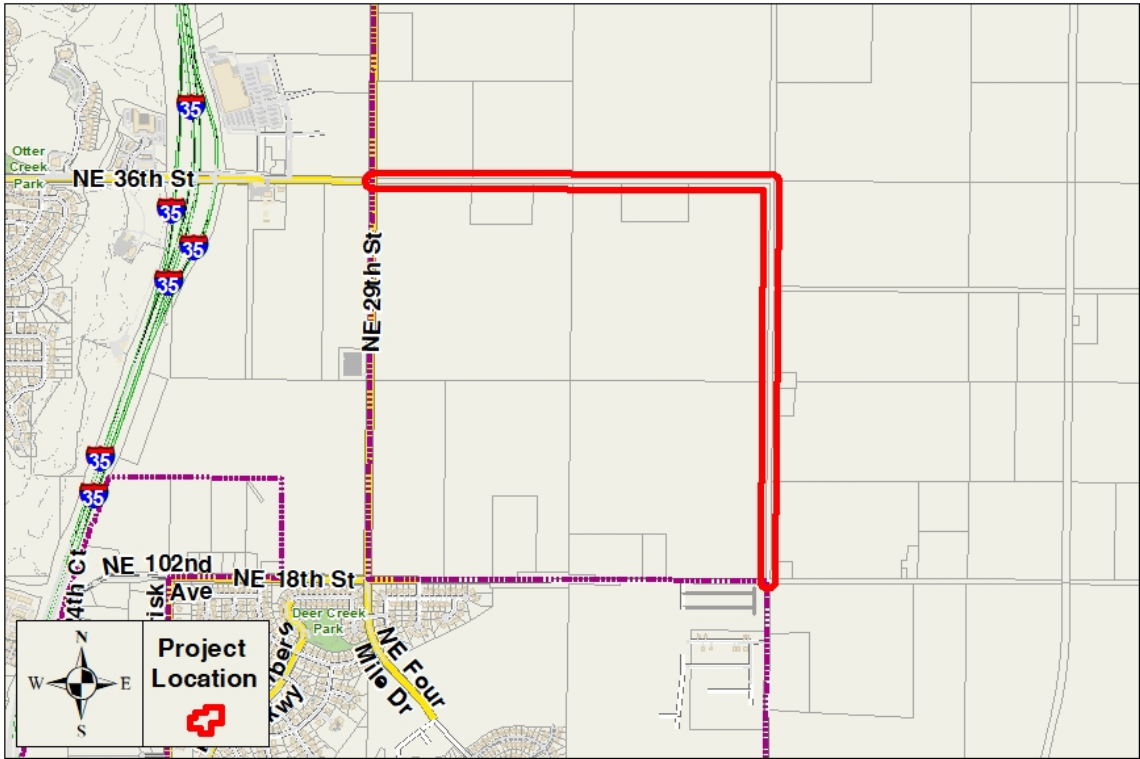
Budget Items	2024	2025	2026	2027	2028	Total
Utilities	2,700					2,700
Total	2,700					2,700

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

Project #	WTM-24-001
Project Name	SW Linden and SW Sharmin Water Main Improvements

Description
Install approximately 1,300 LF of 8" water main between SW Linden Street and SW Sharmin Drive, located north of SW 3rd Street. By upsizing from 6" to 8" diameter pipe, the installation of this water main will provide increased reliability for the distribution system within this area. The project will utilize both open-cut and trenchless construction methods, and will require reconnection of approximately 15 existing services. Construction for this project will be in 2029. It will have a cost of \$50,000 for engineering and \$515,000 for construction for a total of \$565,000.

Justification
The existing 6" water main within the area is undersized by current standards. Installation of the larger water main, along with connection to surrounding main(s) provides a reliable looped system and helps to maintain better distribution system pressures and fire flows within the area. This existing water main has experienced frequent breaks due to age, and portions of the landscape in this section make it difficult to find the break.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design					60,000	60,000
Total					60,000	60,000
Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds					60,000	60,000
Total					60,000	60,000

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 21,000 gallons to fill and flush the new main.

City of Ankeny, Iowa

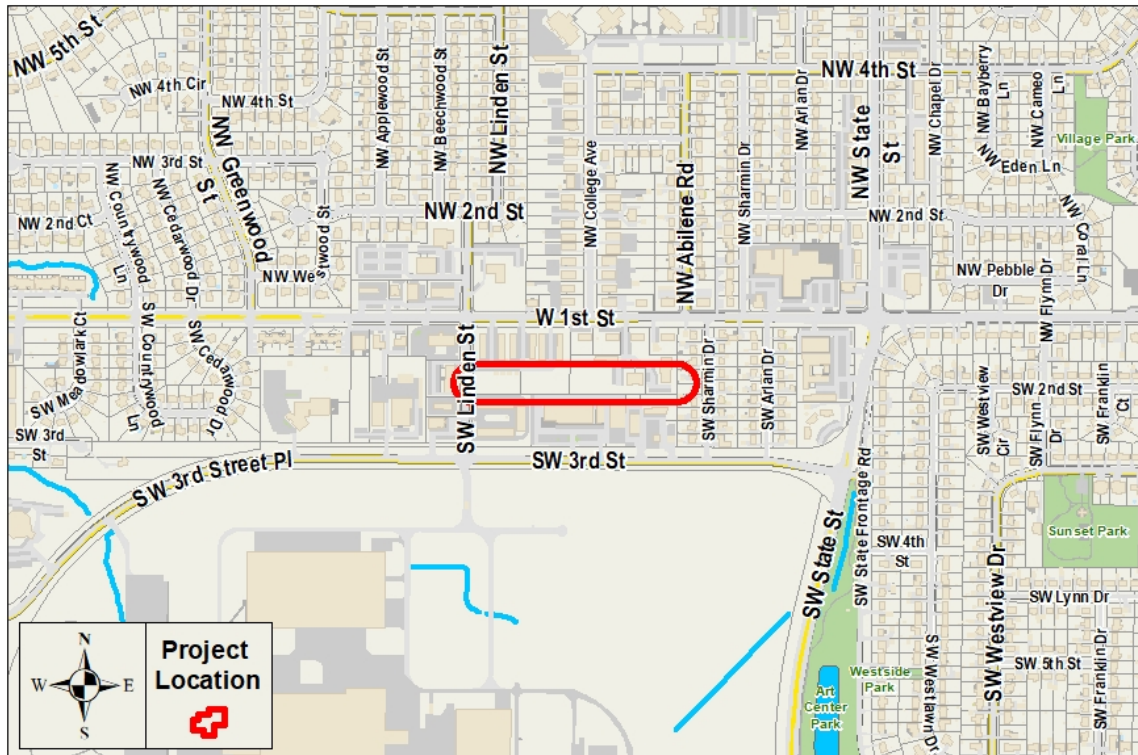
2024 *thru* 2028

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-24-001**

Project Name SW Linden and SW Sharmin Water Main Improvements



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

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

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	940,000					940,000
Construction Costs	10,355,000					10,355,000
Total	11,295,000					11,295,000
Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds	11,295,000					11,295,000
Total	11,295,000					11,295,000

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

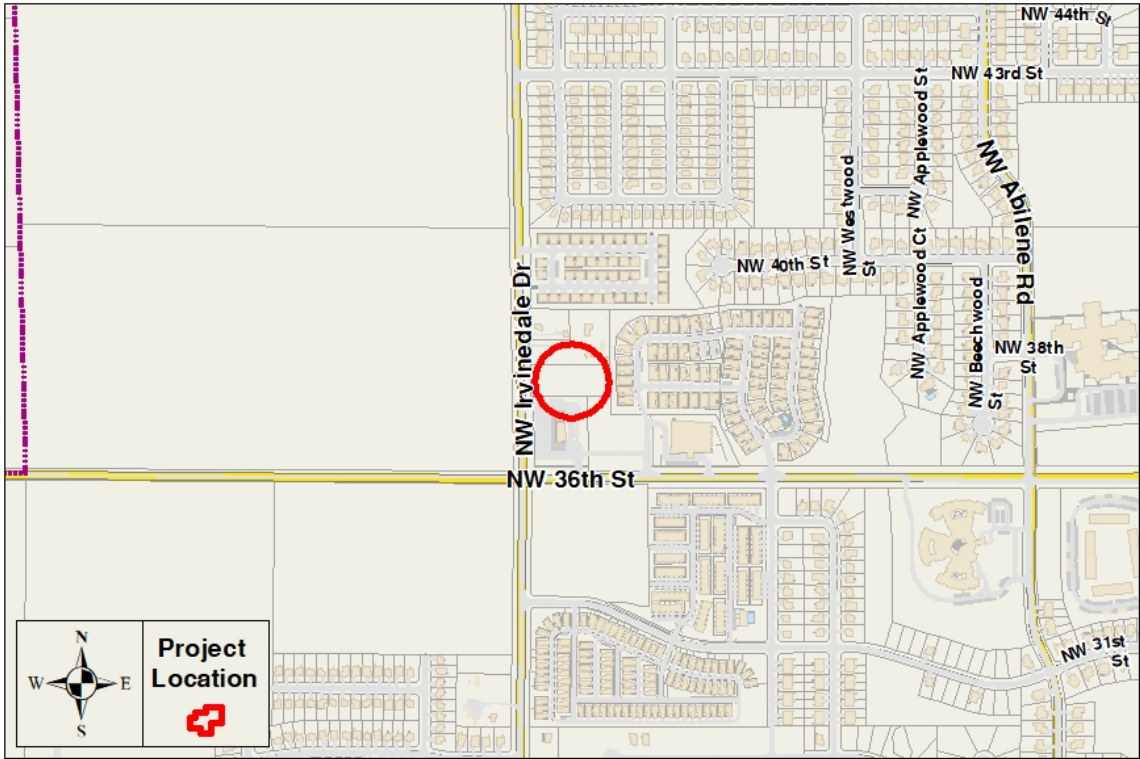
Budget Items	2024	2025	2026	2027	2028	Total
Utilities	18,800					18,800
Total	18,800					18,800

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 thru 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

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

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

Description

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

Justification

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Construction Services	80,000					80,000
Construction Costs	646,000					646,000
Total	726,000					726,000

Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds	726,000					726,000
Total	726,000					726,000

Budget Impact/Other

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

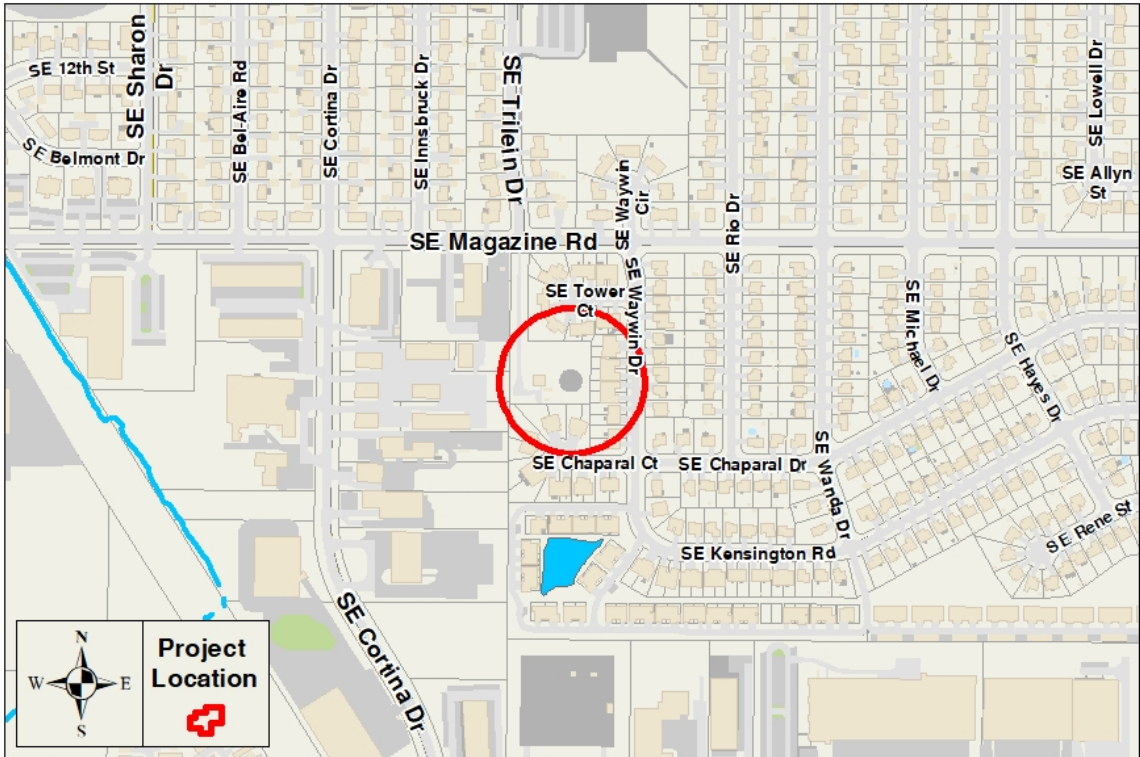
Budget Items	2024	2025	2026	2027	2028	Total
Utilities	1,150					1,150
Total	1,150					1,150

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 *thru* 2028

City of Ankeny, Iowa

DepartmentWater Utility

ContactMunicipal Utilities Director

TypeImprovement

Useful Life20 years

CategoryWater Towers/Storage

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

Description

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

Justification

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

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design				90,000		90,000
Engineering-Construction Services					77,000	77,000
Construction Costs					1,110,000	1,110,000
Total				90,000	1,187,000	1,277,000
Funding Sources	2024	2025	2026	2027	2028	Total
Water Fund				90,000		90,000
Water Revenue Bonds					1,187,000	1,187,000
Total				90,000	1,187,000	1,277,000

Budget Impact/Other

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

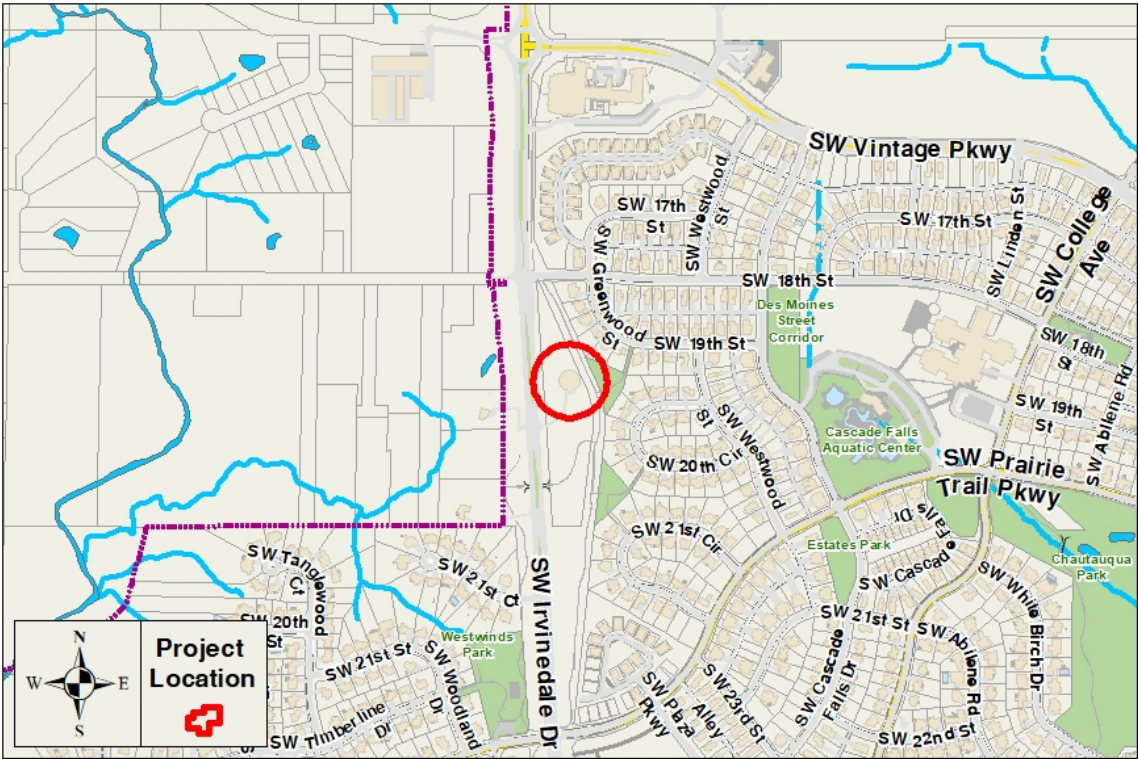
Budget Items	2024	2025	2026	2027	2028	Total
Utilities					8,200	8,200
Total					8,200	8,200

2024 - 2028 Capital Improvement Program
City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility
Contact Municipal Utilities Director

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



2024 - 2028 Capital Improvement Program

2024 thru 2028

City of Ankeny, Iowa

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

Project #	WTT-24-001
Project Name	East Water Tower

Description

Construct a new 2 million gallon elevated water storage tank to provide additional water storage and more reliable water pressure and flow to the eastern part of the City.

Justification

The proposed site is located near East 1st Street and County NE 38th Street. The property has not been purchased, so the exact location is yet to be determined. The tower is needed to provide reliable water pressure and flow for the surrounding areas.

Expenditures	2024	2025	2026	2027	2028	Total
Engineering-Design		400,000				400,000
Engineering-Construction Services			400,000			400,000
Construction Costs			10,000,000			10,000,000
Total		400,000	10,400,000			10,800,000
Funding Sources	2024	2025	2026	2027	2028	Total
Water Revenue Bonds		400,000	10,400,000			10,800,000
Total		400,000	10,400,000			10,800,000

Budget Impact/Other

The design phase would require approximately 100 hours of staff time for review. Field staff will be needed toward the completion of construction with the filling and flushing of mains and the new East Water Tower. Filling and flushing of mains and the tower would take approximately 4,000,000 gallons of water.

Budget Items	2024	2025	2026	2027	2028	Total
Utilities				19,840		19,840
Total				19,840		19,840

City of Ankeny, Iowa

2024 *thru* 2028

Department Water Utility

Contact Municipal Utilities Director

Project # **WTT-24-001**

Project Name	East Water Tower
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