



ANKENY CITY COUNCIL

Council Action Planning Session Monday, November 4, 2024 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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ELECTRONIC MEETING INFORMATION

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

Meeting ID: 973 1299 2966
Passcode: 1234

Dial in: +1 312 626 6799; Meeting ID: 973 1299 2966; Passcode: 1234

A. PARKS & RECREATION

- **FEE DISCUSSION**

B. 2025-2029 CAPITAL IMPROVEMENT PROGRAM

- **WATER, SEWER, AND STORMWATER**

C. ADJOURNMENT

No official action will take place during this planning session.

2025 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2025	Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,385,000								\$ 1,385,000				
Annual Storm Water Replacement Program	STM-00-001	690,000								690,000				
Annual Water Main Replacement Program	WTM-00-001	875,000								875,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	650,000								650,000				
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	325,000								325,000				
Deer Creek Trunk Sewer Extension - Phase 1	SNS-23-003	230,000								230,000				
Sawgrass Park Dam Improvements	STM-19-004	700,000		700,000										
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	536,500		536,500										
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	740,000		545,000						195,000				
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	439,000		439,000										
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	138,000		138,000										
SW Des Moines Street Utility Improvements	STM-24-002	1,385,000		461,667						923,333				
SW Walnut Street and SW Ordnance Road Water Main, including Uptown Parking Improvements	WTM-20-002	1,450,000			375,000		1,075,000							
Elevated Water Storage Tower No. 4	WTT-24-001	400,000								400,000				
		\$ 9,943,500	\$ -	\$ 2,820,167	\$ 375,000	\$ -	\$ 1,075,000	\$ -	\$ -	\$ 5,673,333	\$ -	\$ -	\$ -	\$ -

2026 CIP Projects by Funding Source

2026 CIP Projects by Funding Source			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2026	Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 2,205,000								\$ 2,205,000				
Annual Storm Water Replacement Program	STM-00-001	2,050,000								2,050,000				
Annual Water Main Replacement Program	WTM-00-001	1,625,000								1,625,000				
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	1,750,000								1,750,000				
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	425,000								425,000				
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	12,500								12,500				
Deer Creek Trunk Sewer Extension - Phase 1	SNS-23-003	2,045,000								2,045,000				
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	526,500		526,500										
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	190,000		190,000										
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	515,000		515,000										
Saylor Creek Tributary Channel Improvements	STM-22-005	190,000		190,000										
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	231,000		231,000										
NW 17th Street Storm Sewer and Pavement Improvements	STM-24-001	940,000	505,000	435,000										
SW Des Moines Street Utility Improvements	STM-24-002	940,000		313,333			313,333			313,333				
SW Linden Street and SW Sharmin Drive Water Main Improvements	WTM-24-001	64,000					64,000							
Elevated Water Storage Tower No. 4	WTT-24-001	5,150,000					5,150,000							
SCADA System Upgrade	WTT-25-002	225,000					225,000							
		\$ 19,084,000	\$ 505,000	\$ 2,400,833	\$ -	\$ -	\$ 5,752,333	\$ -	\$ -	\$ 10,425,833	\$ -	\$ -	\$ -	\$ -

2027 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2027	Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,780,000								\$ 1,780,000				
Annual Storm Water Replacement Program	STM-00-001	1,675,000								1,675,000				
Annual Water Main Replacement Program	WTM-00-001	1,250,000								1,250,000				
Clover Ridge Trunk Sewer Extension	SNS-22-003	93,500								93,500				
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	127,500								127,500				
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,420,000		1,320,000			100,000							
Diamond Hills Greenway Stream Stabilization	STM-22-002	80,000		80,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	160,000		160,000										
Saylor Creek Tributary Channel Improvements	STM-22-005	210,000		210,000										
SW Linden Street and SW Sharmin Drive Water Main Improvements	WTM-24-001	586,000					586,000							
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	90,000					90,000							
Elevated Water Storage Tower No. 4	WTT-24-001	5,150,000					5,150,000							
		\$ 12,622,000	\$ -	\$ 1,770,000	\$ -	\$ -	\$ 5,926,000	\$ -	\$ -	\$ 4,926,000	\$ -	\$ -	\$ -	\$ -

2028 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2028	Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 2,030,000								\$ 2,030,000				
Annual Storm Water Replacement Program	STM-00-001	1,825,000								1,825,000				
Annual Water Main Replacement Program	WTM-00-001	1,400,000								1,400,000				
Clover Ridge Trunk Sewer Extension	SNS-22-003	856,500								856,500				
Sanitary Sewer Dead-End Elimination	SNS-25-001	675,000								675,000				
Deer Creek Trunk Sewer Extension - Phase 2	SNS-25-002	390,000								390,000				
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,330,000		1,330,000										
Diamond Hills Greenway Stream Stabilization	STM-22-002	80,000		80,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	150,000		150,000										
Saylor Creek Tributary Channel Improvements	STM-22-005	3,400,000		3,400,000										
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	1,187,000					1,187,000							
Aquifer Storage and Recovery Well No. 2 Rehabilitation	WTT-25-001	200,000					200,000							
		\$ 13,523,500	\$ -	\$ 4,960,000	\$ -	\$ -	\$ 1,387,000	\$ -	\$ -	\$ 7,176,500	\$ -	\$ -	\$ -	\$ -

2029 CIP Projects by Funding Source

			General Obligation Bonds				Revenue Bonds		Miscellaneous					
Project	Project #	2028	Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,955,000								\$ 1,955,000				
Annual Storm Water Replacement Program	STM-00-001	1,850,000								1,850,000				
Annual Water Main Replacement Program	WTM-00-001	1,425,000								1,425,000				
Deer Creek Trunk Sewer Extension - Phase 2	SNS-25-002	3,415,000								3,415,000				
Diamond Hills Greenway Stream Stabilization	STM-22-002	1,850,000		1,850,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	1,500,000		1,500,000										
SW Oralabor Road Transmission Main	WTM-25-001	300,000					300,000							
Aquifer Storage and Recovery Well No. 2 Rehabilitation	WTT-25-001	2,200,000					2,200,000							
\$ 14,495,000			\$ -	\$ 3,350,000	\$ -	\$ -	\$ 2,500,000	\$ -	\$ -	\$ 8,645,000	\$ -	\$ -	\$ -	\$ -

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>	<u>Projected 2028</u>	<u>Projected 2029</u>
Beginning Cash Balance	\$ 1,697,559	\$ 2,215,580	\$ 1,930,580	\$ 1,025,580	\$ 745,580	\$ 415,580
<u>Transfers In</u>						
Sewer Fund	\$ 1,000,000	\$ 1,100,000	\$ 1,300,000	\$ 1,500,000	\$ 1,700,000	\$ 1,900,000
Deer Creek Trunk Sewer	\$ 475,254					
NW Northlawn Area Sanitary Sewer Improvements	\$ 37,742					
Otter Creek Trunk Sewer - Phase 3	\$ 416,786					
West Outfall Basin Sanitary Sewer Improvements	\$ 135,457					
Total Transfers In	\$ 2,065,239	\$ 1,100,000	\$ 1,300,000	\$ 1,500,000	\$ 1,700,000	\$ 1,900,000
<u>Project Expenditures</u>						
Sanitary Sewer Oversizing	\$ 30,000	\$ 60,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs and Slip Lining	\$ 586,258	\$ 575,000	\$ 625,000	\$ 575,000	\$ 675,000	\$ 575,000
NW Northlawn Area Utility Improvements	\$ 778,360	\$ 525,000				
Westlawn Place Area Utility Improvements	\$ 152,599	\$ 225,000	\$ 1,550,000	\$ 1,175,000	\$ 1,325,000	\$ 1,350,000
Total Project Expenditures	\$ 1,547,217	\$ 1,385,000	\$ 2,205,000	\$ 1,780,000	\$ 2,030,000	\$ 1,955,000
Remaining Cash Balance	\$ 2,215,580	\$ 1,930,580	\$ 1,025,580	\$ 745,580	\$ 415,580	\$ 360,580

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>	<u>Projected 2028</u>	<u>Projected 2029</u>
Beginning Cash Balance	\$ 655,246	\$ 606,244	\$ 166,244	\$ 166,244	\$ 166,244	\$ 166,244
<u>Transfers In</u>						
Storm Water Fund	\$ 400,000	\$ 600,000	\$ 2,050,000	\$ 1,675,000	\$ 1,825,000	\$ 1,850,000
Westwinds Channel Flood Repair	\$ 174,573					
Wildflower Detention Basin Improvements	\$ 118,671					
Total Transfers In	\$ 693,244	\$ 600,000	\$ 2,050,000	\$ 1,675,000	\$ 1,825,000	\$ 1,850,000
<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	\$ 159,520					
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	\$ 248,809	\$ 150,000				
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	\$ 133,253					
Drainage improvements on North Creek Trail near North Creek Park and Four Mile Creek storm sewer outlet repairs	\$ 101,878					
Gay Lea Wilson emergency trail repairs	\$ 14,900					
Minor storm water management and storm sewer improvements and repairs	\$ 58,885	\$ 35,000				
Intake replacement, 3110 block of SW Logan Street		\$ 35,000				
Pipe replacement, 700 block of NE 5th Street		\$ 85,000				
Flared end section ditching, SE Corporate Woods Drive		\$ 35,000				
Tradition Detention Basin grate replacement		\$ 35,000				
Michael Park erosion repairs		\$ 15,000				
North Creek Park subdrain repairs		\$ 30,000				
Pipe repair, 1500 block of NW Linwood Drive		\$ 20,000				

Detention basin improvements - South Ankeny Boulevard and SE 16th Street		\$ 25,000				
Westlawn Place Area Utility Improvements		\$ 225,000	\$ 1,550,000	\$ 1,175,000	\$ 1,325,000	\$ 1,350,000
Storm water projects (TBD)			\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Total Project Expenditures	\$ 742,246	\$ 690,000	\$ 2,050,000	\$ 1,675,000	\$ 1,825,000	\$ 1,850,000
<u>Transfers Out</u>						
Annual Street Replacement Program		\$ 350,000				
Total Transfers Out	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -
Remaining Cash Balance	\$ 606,244	\$ 166,244	\$ 166,244	\$ 166,244	\$ 166,244	\$ 166,244

<u>Annual Water Main Replacement Program</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>	<u>Projected 2028</u>	<u>Projected 2029</u>
Beginning Cash Balance	\$ 1,243,778	\$ 1,663,987	\$ 1,513,987	\$ 788,987	\$ 638,987	\$ 438,987
<u>Transfers In</u>						
Water Fund	\$ 700,000	\$ 725,000	\$ 900,000	\$ 1,100,000	\$ 1,200,000	\$ 1,300,000
Irvinedale Drive Transmission Main	\$ 725,493					
Total Transfers In	\$ 1,425,493	\$ 725,000	\$ 900,000	\$ 1,100,000	\$ 1,200,000	\$ 1,300,000
<u>Project Expenditures</u>						
Water Main Oversizing	\$ 75,000	\$ 125,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
NW Northlawn Area Utility Improvements	\$ 778,360	\$ 525,000				
Westlawn Place Area Utility Improvements	\$ 151,924	\$ 225,000	\$ 1,550,000	\$ 1,175,000	\$ 1,325,000	\$ 1,350,000
Total Project Expenditures	\$ 1,005,284	\$ 875,000	\$ 1,625,000	\$ 1,250,000	\$ 1,400,000	\$ 1,425,000
Remaining Cash Balance	<u>\$ 1,663,987</u>	<u>\$ 1,513,987</u>	<u>\$ 788,987</u>	<u>\$ 638,987</u>	<u>\$ 438,987</u>	<u>\$ 313,987</u>

2025-2029 Capital Improvement Program Overall Project Listing with 10-Year High Priority Projects								
Proposed Projects								
	Project No.	2025	2026	2027	2028	2029	High Priority Projects	Project Cost
ANNUAL PROGRAMS								
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$ 1,385,000	\$ 2,205,000	\$ 1,780,000	\$ 2,030,000	\$ 1,955,000	\$ 11,275,000	\$ 20,630,000
Annual Storm Water Replacement Program	STM-00-001	690,000	2,050,000	1,675,000	1,825,000	1,850,000	9,625,000	17,715,000
Annual Water Main Replacement Program	WTM-00-001	875,000	1,625,000	1,250,000	1,400,000	1,425,000	7,500,000	14,075,000
SANITARY SEWERS								
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	-	1,750,000	-	-	-	-	1,750,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	650,000	-	-	-	-	-	650,000
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	325,000	425,000	-	-	-	-	750,000
Clover Ridge Trunk Sewer Extension	SNS-22-003	-	-	93,500	856,500	-	-	950,000
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	-	12,500	127,500	-	-	-	140,000
Deer Creek Trunk Sewer Extension - Phase 1	SNS-23-003	230,000	2,045,000	-	-	-	-	2,275,000
Sanitary Sewer Dead-End Elimination	SNS-25-001	-	-	-	675,000	-	-	675,000
Deer Creek Trunk Sewer Extension - Phase 2	SNS-25-002	-	-	-	390,000	3,415,000	-	3,805,000
Polk County Lift Station Decommissioning	SNS-22-004	-	-	-	-	-	1,953,000	1,953,000
Highland Estates Sanitary Sewer Replacement	Sanitary Sewers	-	-	-	-	-	1,475,000	1,475,000
John Deere Lift Station Replacement	Sanitary Sewers	-	-	-	-	-	1,200,000	1,200,000
Saylor Creek Lift Station Improvements	Sanitary Sewers	-	-	-	-	-	750,000	750,000
Southern Interceptor Trunk Sewer CIPP Lining	Sanitary Sewers	-	-	-	-	-	7,000,000	7,000,000
STORM WATER								
Sawgrass Park Dam Improvements	STM-19-004	700,000	-	-	-	-	-	700,000
Four Mile Creek and Tributary Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	536,500	526,500	-	-	-	-	1,063,000
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	740,000	-	-	-	-	-	740,000
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	-	-	80,000	80,000	1,850,000	-	2,010,000
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	-	-	160,000	150,000	1,500,000	-	1,810,000
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	439,000	515,000	-	-	-	-	954,000
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	138,000	231,000	-	-	-	-	369,000
NW 17th Street Storm Sewer and Pavement Improvements	STM-24-001	-	940,000	-	-	-	-	940,000
SW Des Moines Street Utility Improvements	STM-24-002	1,385,000	940,000	-	-	-	-	2,325,000

2025-2029 Capital Improvement Program								
Overall Project Listing with 10-Year High Priority Projects								
Proposed Projects								
	Project No.	2025	2026	2027	2028	2029	High Priority Projects	Project Cost
WATER								
SW Walnut Street and SW Ordnance Road Water Main, including Uptown Parking Improvements	WTM-20-002	1,450,000	-	-	-	-	-	1,450,000
SW Linden Street and SW Sharmin Drive Water Main Improvements	WTM-24-001	-	64,000	586,000	-	-	-	650,000
SW Oralabor Road Transmission Main	WTM-25-001	-	-	-	-	300,000	4,750,000	5,050,000
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	-	-	90,000	1,187,000	-	-	1,277,000
Elevated Water Storage Tower No. 4	WTT-24-001	400,000	5,150,000	5,150,000	-	-	-	10,700,000
Aquifer Storage and Recovery Well No. 2 Rehabilitation	WTT-25-001	-	-	-	200,000	2,200,000	-	2,400,000
SCADA System Upgrade	WTT-25-002	-	225,000	-	-	-	-	225,000
NW Irvinedale Drive and NW 36th Street Water Main Loop	Water	-	-	-	-	-	275,000	275,000
NW State Street Water Main Improvements	Water	-	-	-	-	-	875,000	875,000
Year Totals		\$ 9,943,500	\$ 19,084,000	\$ 12,622,000	\$ 13,523,500	\$ 14,495,000	\$ 46,678,000	\$ 116,346,000

2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 2025 - 2029 include:

- Bi-annual CIPP sanitary sewer lining: 2026 - \$550,000 and 2028 - \$600,000
- Bi-annual manhole repair project: 2025, 2027, and 2029 - \$500,000/year
- Sanitary sewer spot repairs: 2025 - 2029 - \$75,000/year
- Development sanitary sewer oversizing: 2025 - \$60,000 and 2026 - 2029 - \$30,000/year
- 1/3 NW Northlawn Area Utility Improvements (Phase 4):
o2025 - \$500,000 (Phase 4 construction) and \$25,000 (Phase 4 construction engineering)

- 1/4 Westlawn Place Area Utility Improvements (16 Phases over 8 years – 2026 - 2033):
o2025 - \$150,000 (Phase 1 Design Engineering) and \$75,000 (Acquisitions for all phases)
o2026 - \$1,375,000 (Phase 1 Construction) and \$75,000 (Phase 1 Construction Engineering) and \$100,000 (Phase 2 Design Engineering)
o2027 - \$1,000,000 (Phase 2 Construction) and \$75,000 (Phase 2 Construction Engineering) and \$100,000 (Phase 3 Design Engineering)
o2028 - \$1,150,000 (Phase 3 Construction) and \$75,000 (Phase 3 Construction Engineering) and \$100,000 (Phase 4 Design Engineering)
o2029 - \$1,150,000 (Phase 4 Construction) and \$75,000 (Phase 4 Construction Engineering) and \$125,000 (Phase 5 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 the City has approximately 230,000 LF of Vitrified Clay Pipe (VCP) within the system and even at the newly requested rate it will take 18 years to get all of the 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	2025	2026	2027	2028	2029	Total
Engineering-Design	150,000	100,000	100,000	100,000	125,000	575,000
Engineering-Construction Services	25,000	75,000	75,000	75,000	75,000	325,000
Construction Costs	1,135,000	2,030,000	1,605,000	1,855,000	1,755,000	8,380,000
Land/ROW Acquisition	75,000					75,000
Total	1,385,000	2,205,000	1,780,000	2,030,000	1,955,000	9,355,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund	1,385,000	2,205,000	1,780,000	2,030,000	1,955,000	9,355,000
Total	1,385,000	2,205,000	1,780,000	2,030,000	1,955,000	9,355,000

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 the WRA flow. These areas will be placed on the routine pipe cleaning and inspection programs at the end of the maintenance bond, reducing the 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.

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program



city of
Ankeny

bringing it all together

2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

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

Description
Install approximately 3,600 LF of 24-inch 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	2025	2026	2027	2028	2029	Total
Engineering-Construction Services		150,000				150,000
Construction Costs		1,500,000				1,500,000
Land/ROW Acquisition		100,000				100,000
Total		1,750,000				1,750,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund		1,750,000				1,750,000
Total		1,750,000				1,750,000

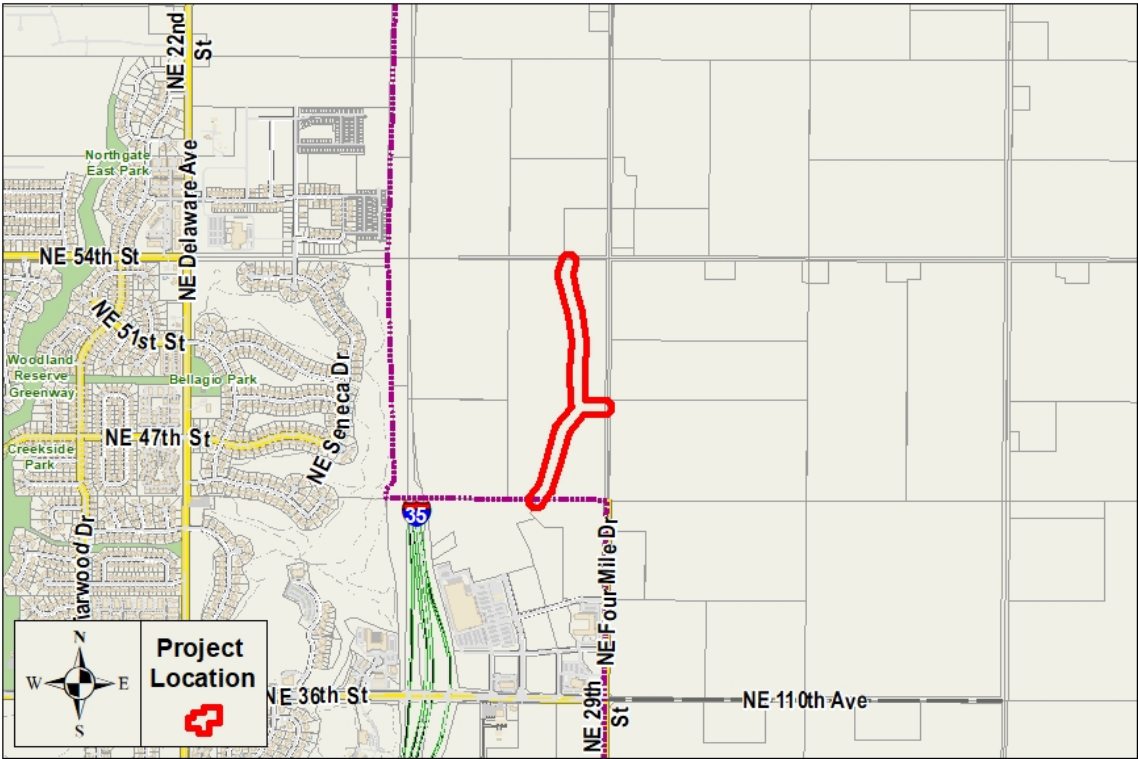
Budget Impact/Other
Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to the routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being a large diameter trunk sewer, this would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

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Sewer Utility
Contact Municipal Utilities Director

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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	2025	2026	2027	2028	2029	Total
Construction Costs	650,000					650,000
Total	650,000					650,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund	650,000					650,000
Total	650,000					650,000

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.

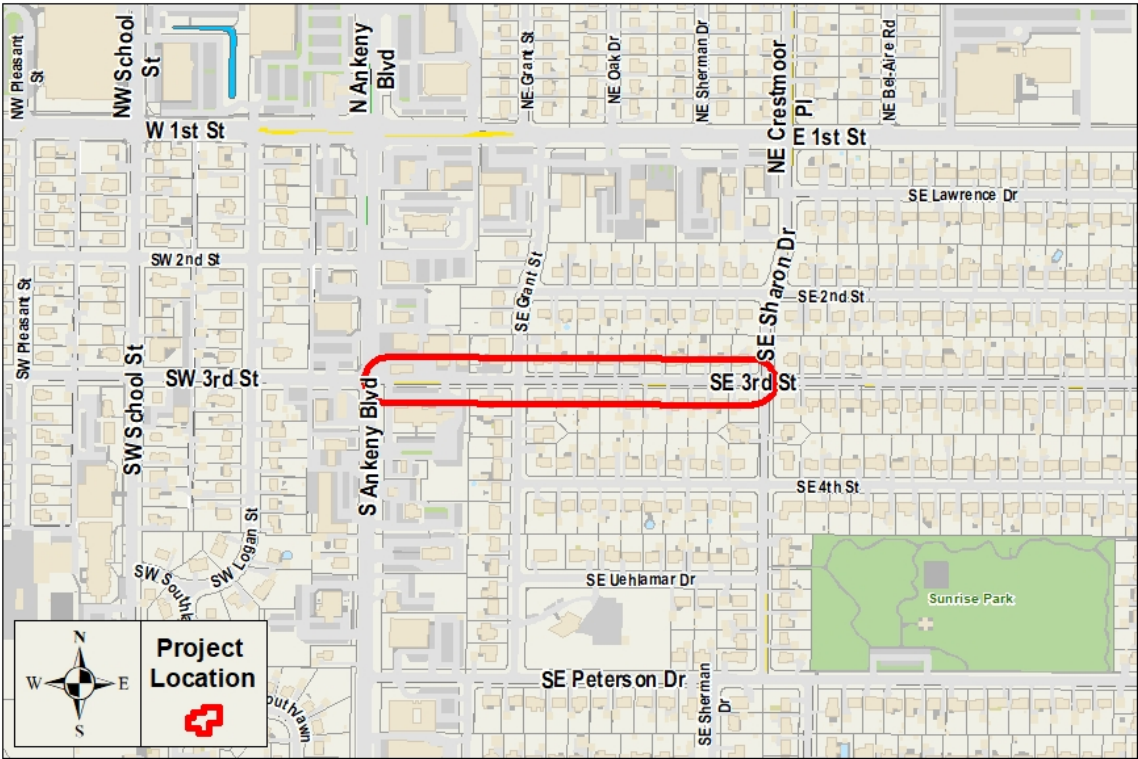
Budget Items	2025	2026	2027	2028	2029	Total
Utilities	100					100
Total	100					100

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Sewer Utility
Contact Municipal Utilities Director

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

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

Description

The Trestle Ridge Trunk Sewer Cost Share project will include installation of approximately 1,600 LF of 24-inch sanitary sewer in 2025 and approximately 2,700 LF of 21-inch sanitary sewer in 2026. The Phase 1 trunk sewer will connect at an existing manhole at the northwest corner of Trestle Ridge Estates Plat 6 and this line will 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 potentially planning to provide sanitary service 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 is proposing to pay the cost difference of upsizing from an 8-inch 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 2024 but the development project didn't occur so this cost share is being proposed for 2025 in anticipation the development occurs next year. The project is split into two phases in 2025 and 2026 to account for the possibility that the land along this trunk line gets developed in phases similar to what we have shown.

Expenditures	2025	2026	2027	2028	2029	Total
Construction Costs	325,000	425,000				750,000
Total	325,000	425,000				750,000
Funding Sources	2025	2026	2027	2028	2029	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

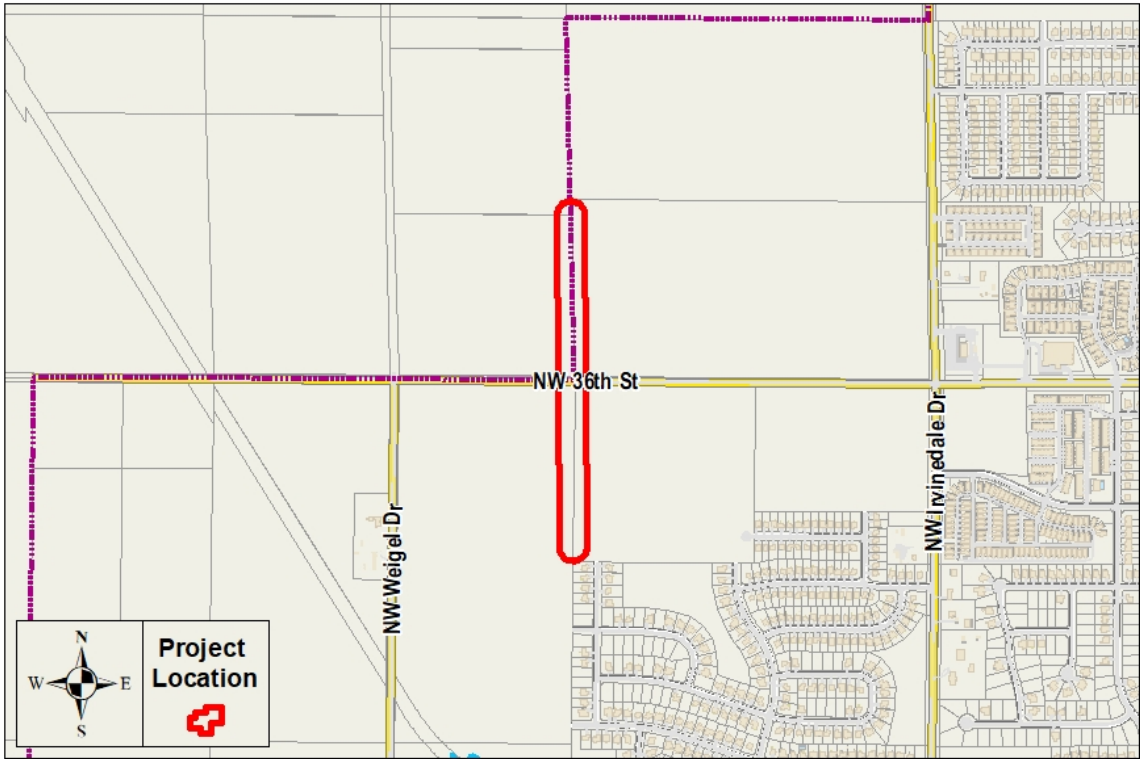
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2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Sewer Utility
Contact Municipal Utilities Director

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 890 LF of 24-inch diameter sanitary trunk sewer extending east from the existing WRA manhole at the west end of NE 86th Avenue (NE Magazine Road). Stubs will be placed north and east from the terminal manhole for future extensions. The majority of the project will utilize open-cut construction; a portion of the sewer will be bored to accommodate a creek crossing.

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	2025	2026	2027	2028	2029	Total
Engineering-Design			91,000			91,000
Engineering-Construction Services				76,000		76,000
Construction Costs				780,500		780,500
Land/ROW Acquisition			2,500			2,500
Total			93,500	856,500		950,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund			93,500	856,500		950,000
Total			93,500	856,500		950,000

Budget Impact/Other

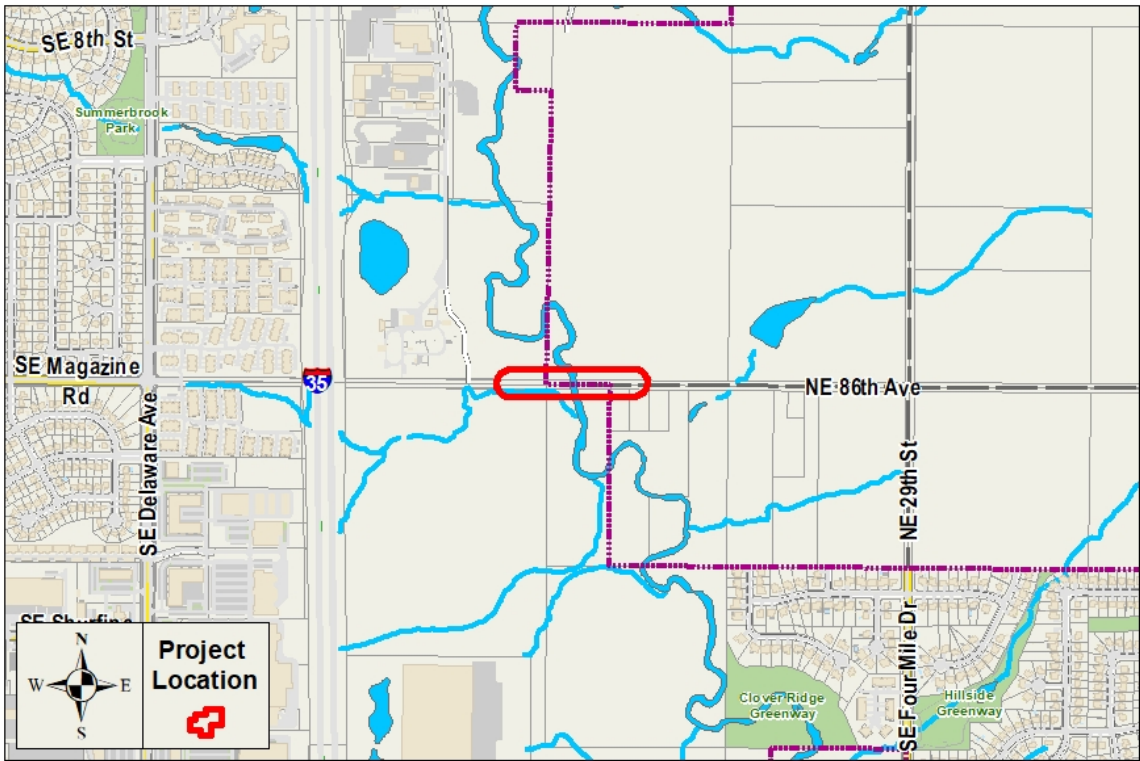
Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency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

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Sewer Utility
Contact Municipal Utilities Director

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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-inch 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	2025	2026	2027	2028	2029	Total
Engineering-Design		12,500				12,500
Engineering-Construction Services			10,500			10,500
Construction Costs			116,000			116,000
Land/ROW Acquisition			1,000			1,000
Total		12,500	127,500			140,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund		12,500	127,500			140,000
Total		12,500	127,500			140,000

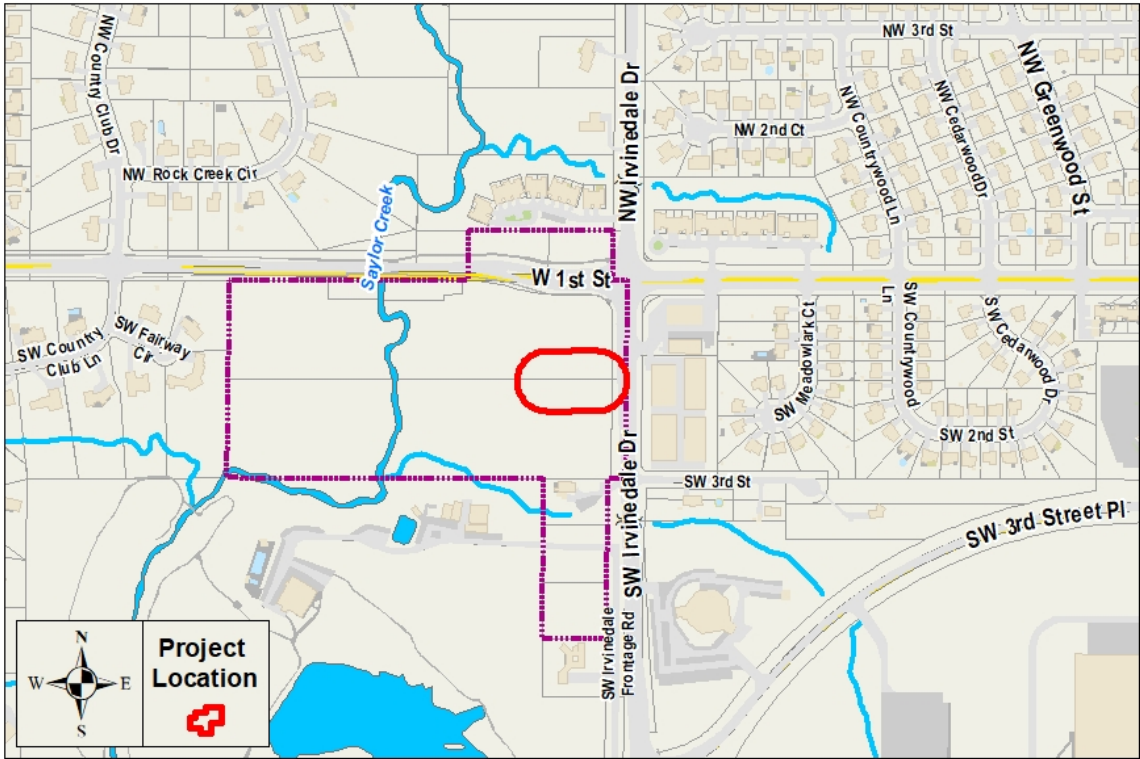
Budget Impact/Other
It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance.

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Sewer Utility
Contact Municipal Utilities Director

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

Project # SNS-23-003
Project Name Deer Creek Trunk Sewer Extension-Phase 1

Description

Install approximately 2,900 LF of 30-inch diameter sanitary trunk sewer from the existing 30-inch 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. City staff will perform the on-site construction inspection, which will save the City roughly \$100,000 in engineering fees in 2026.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design	230,000					230,000
Engineering-Construction Services		100,000				100,000
Construction Costs		1,895,000				1,895,000
Land/ROW Acquisition		50,000				50,000
Total	230,000	2,045,000				2,275,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund	230,000	2,045,000				2,275,000
Total	230,000	2,045,000				2,275,000

Budget Impact/Other

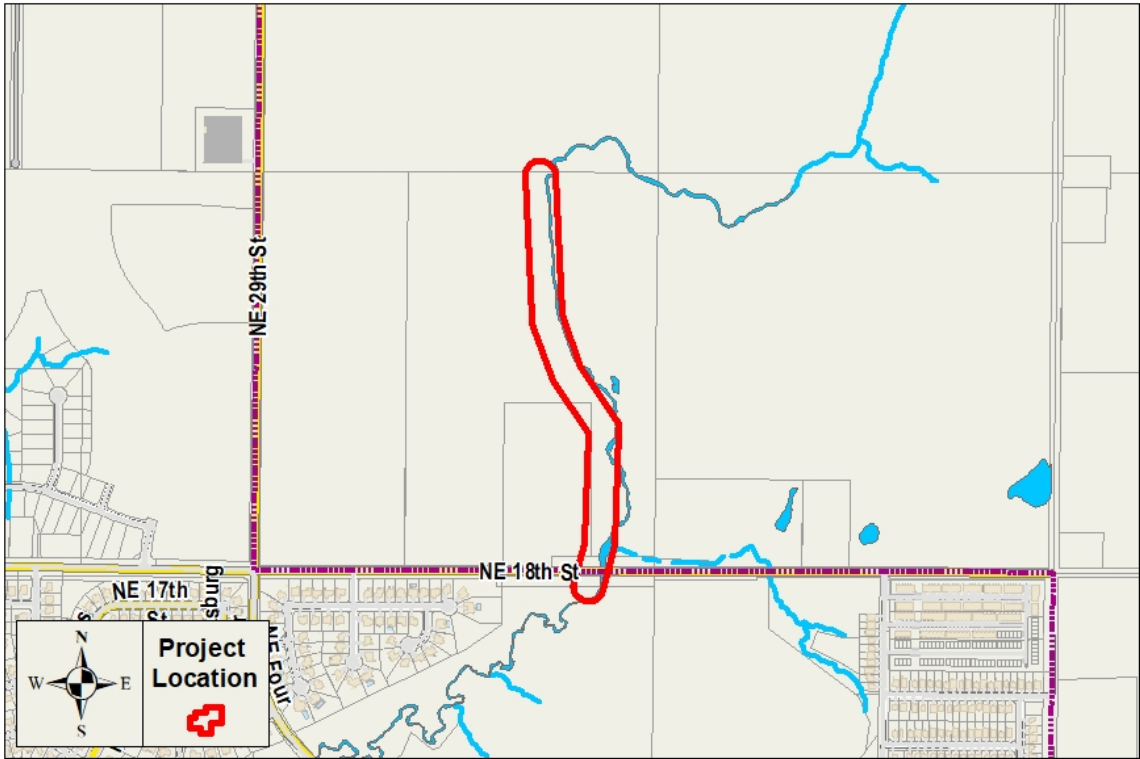
Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to the routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency of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

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Sewer Utility
Contact Municipal Utilities Director

Project #	SNS-23-003
Project Name	Deer Creek Trunk Sewer Extension-Phase 1



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

Project #	SNS-25-001
Project Name	Sanitary Sewer Dead-End Elimination

Description

This project consists of the construction/placement of 13 manholes at the end of dead-end sanitary sewer mains that currently terminate with cleanouts or stubs. Also included with this project is the adjustment to finished grade of manholes that are buried more than 18". Approximately 40 manholes will need adjustment. City staff will perform the design and on-site construction inspection, which will save the City approximately \$132,000 in engineering fees in 2028.

Justification

The existing dead-end mains make it difficult for City staff to perform maintenance. Providing manholes at these locations will make it easier for cleaning and televising purposes.

Expenditures	2025	2026	2027	2028	2029	Total
Construction Costs				675,000		675,000
Total				675,000		675,000

Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund				675,000		675,000
Total				675,000		675,000

Budget Impact/Other

It is anticipated that City staff will be able to more efficiently perform routine maintenance on these segments of pipe.

Project # SNS-25-001

Project Name Sanitary Sewer Dead-End Elimination



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2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

Project # SNS-25-002
Project Name Deer Creek Trunk Sewer Extension-Phase 2

Description

Install approximately 4,500 LF of 30-inch diameter sanitary trunk sewer from the existing 30-inch sanitary line from the end of Deer Creek Trunk Sewer Extension - Phase 1 to the west side of the NE 38th Street (county) right-of-way.

Justification

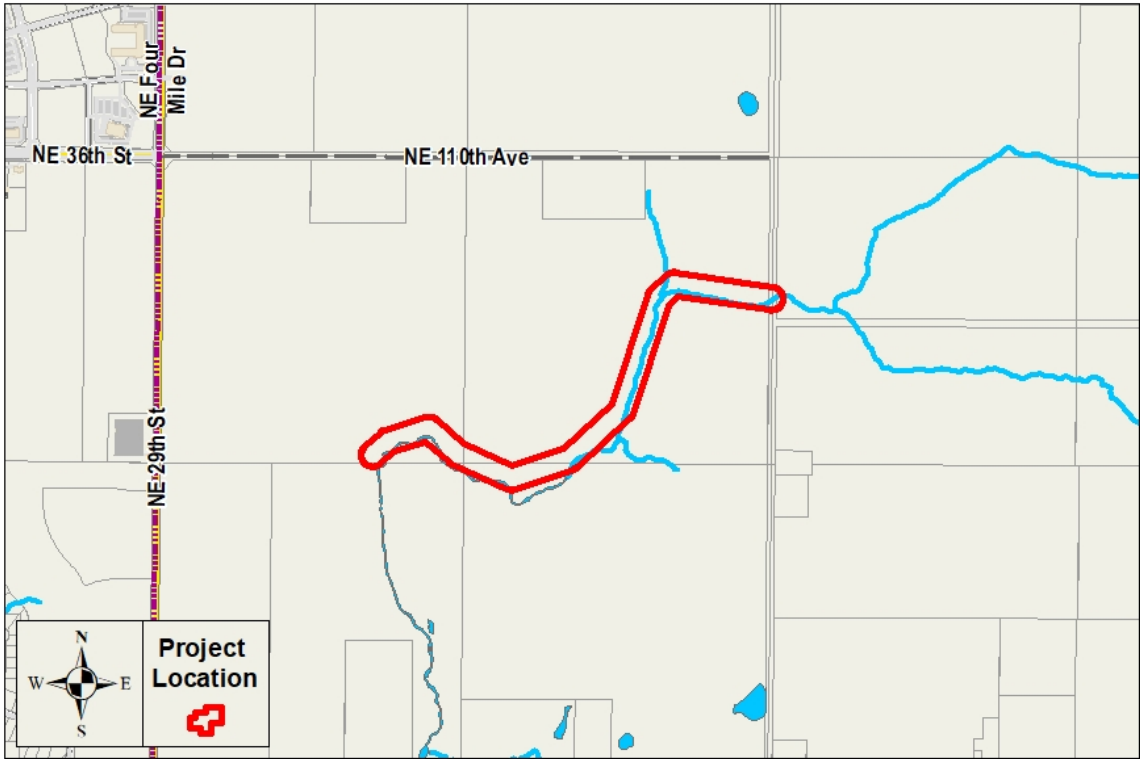
Phase 2 continues to cover sanitary needs for future land to be annexed and developed north of NE 18th Street. This trunk line will serve a large portion of development land north of NE 18th Street and east of NE 29th Street (county) to our 2040 project growth boundary. Phase 2 is all developer owned land so it could become a project completed by development agreement and installed by developers. Due to the large amount of land controlled by one developer, a development agreement would be an acceptable and possibly more efficient way to construct this section of sewer. City staff will perform the on-site construction inspection, which will save the City roughly \$165,000 in engineering fees in 2029.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design				390,000		390,000
Engineering-Construction Services					165,000	165,000
Construction Costs					3,250,000	3,250,000
Total				390,000	3,415,000	3,805,000
Funding Sources	2025	2026	2027	2028	2029	Total
Sewer Fund				390,000	3,415,000	3,805,000
Total				390,000	3,415,000	3,805,000

Budget Impact/Other

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

Project #	SNS-25-002
Project Name	Deer Creek Trunk Sewer Extension-Phase 2



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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.

1. 3110 Block SW Logan Street, Intake Replacement – \$35,000
2. Vintage Business Park, North Lake Maintenance - Phase 2 – \$150,000
3. 700 Block NE 5th Street, Pipe Replacement – \$85,000
4. Flared End Section Ditching, SE Corporate Woods Drive – \$35,000
5. Tradition Detention Basin Grate Replacement – \$35,000
6. Michael Park Erosion Repairs – \$15,000
7. North Creek Park Subdrain Repairs – \$30,000
8. 1500 Block NW Linwood Drive, Pipe Repair – \$20,000
9. Detention Basin Improvements - South Ankeny Boulevard and SE 16th Street – \$25,000
10. Minor storm water management and storm sewer improvements and repairs – \$35,000

•1/4 Westlawn Place Area Utility Improvements (16 Phases over 8 Years – 2026 - 2033):

o2025 - \$150,000 (Phase 1 Design Engineering) and \$75,000 (Acquisitions for All Phases)

o2026 - \$1,375,000 (Phase 1 Construction) and \$75,000 (Phase 1 Construction Engineering) and \$100,000 (Phase 2 Design Engineering)

o2027 - \$1,000,000 (Phase 2 Construction) and \$75,000 (Phase 2 Construction Engineering) and \$100,000 (Phase 3 Design Engineering)

o2028 - \$1,150,000 (Phase 3 Construction) and \$75,000 (Phase 3 Construction Engineering) and \$100,000 (Phase 4 Design Engineering)

o2029 - \$1,150,000 (Phase 4 Construction) and \$75,000 (Phase 4 Construction Engineering) and \$125,000 (Phase 5 Design Engineering)

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.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	190,000	235,000	235,000	235,000	260,000	1,155,000
Construction Costs	425,000	1,815,000	1,440,000	1,590,000	1,590,000	6,860,000
Land/ROW Acquisition	75,000					75,000
Total	690,000	2,050,000	1,675,000	1,825,000	1,850,000	8,090,000

Funding Sources	2025	2026	2027	2028	2029	Total
Storm Water Fund	690,000	2,050,000	1,675,000	1,825,000	1,850,000	8,090,000
Total	690,000	2,050,000	1,675,000	1,825,000	1,850,000	8,090,000

Budget Impact/Other

Repairing and improving the storm water management system will reduce the annual maintenance costs for the City by regularly addressing the maintenance issues in the storm water management system.

Budget Items	2025	2026	2027	2028	2029	Total
Maintenance Costs	-10,000	-12,000	-14,000	-16,000	-18,000	-70,000
Total	-10,000	-12,000	-14,000	-16,000	-18,000	-70,000

Project # STM-00-001

Project Name Annual Storm Water Replacement Program



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2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	125,000					125,000
Construction Costs	575,000					575,000
Total	700,000					700,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated	700,000					700,000
Total	700,000					700,000

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	2025	2026	2027	2028	2029	Total
Maintenance Costs		-500	-500	-500	-500	-2,000
Total		-500	-500	-500	-500	-2,000

City of Ankeny, Iowa

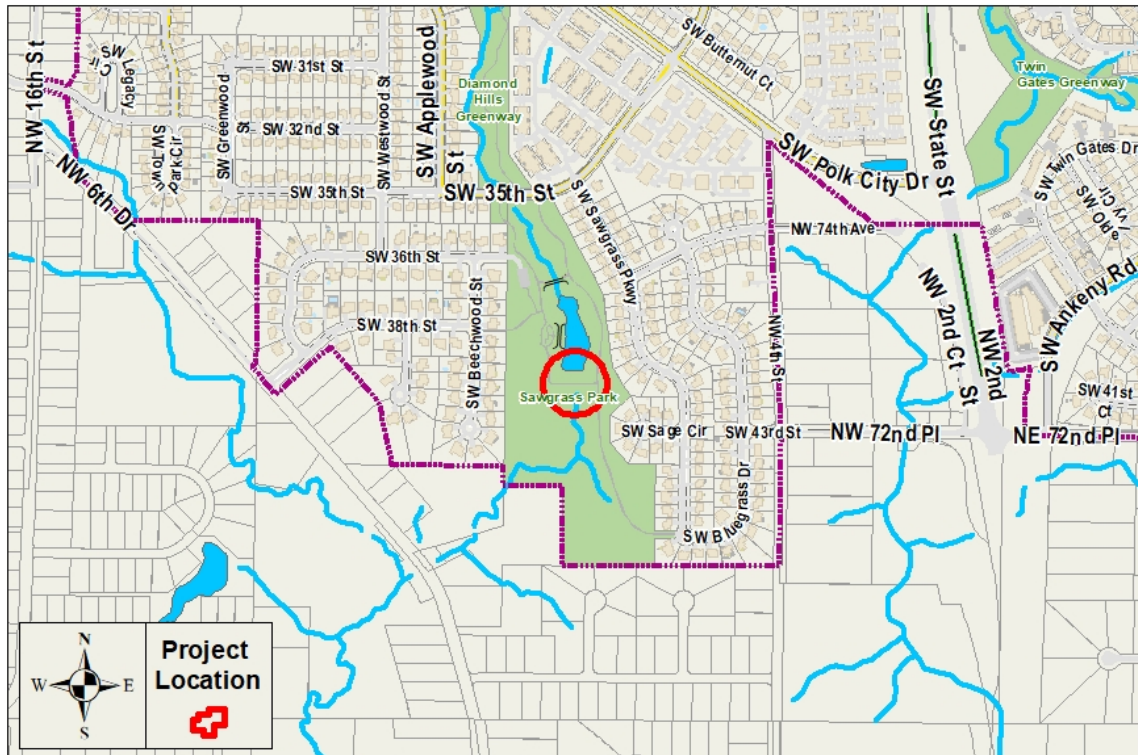
2025 *thru* 2029

Department Storm Water Utility

Contact City Engineer

Project # **STM-19-004**

Project Name Sawgrass Park Dam Improvements



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 construction in 2025 and 2026. It is expected that this project will receive funding from Polk County to pay for 70% of the construction and 70% of the construction administration and observation.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	54,000	47,500				101,500
Construction Costs	482,500	479,000				961,500
Total	536,500	526,500				1,063,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated	536,500	526,500				1,063,000
Total	536,500	526,500				1,063,000

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	2025	2026	2027	2028	2029	Total
Maintenance Costs			20,000	20,000	20,000	60,000
Total			20,000	20,000	20,000	60,000

Project # STM-20-001

Project Name Four Mile Creek and Tributary Stabilization



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 completing construction in 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 2025 construction costs include approximately \$195,000 of water main improvements.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	40,000					40,000
Construction Costs	700,000					700,000
Total	740,000					740,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated	545,000					545,000
Water Fund	195,000					195,000
Total	740,000					740,000

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	2025	2026	2027	2028	2029	Total
Maintenance Costs		-2,000	-2,000	-2,000	-2,000	-8,000
Total		-2,000	-2,000	-2,000	-2,000	-8,000

2025 *thru* 2029

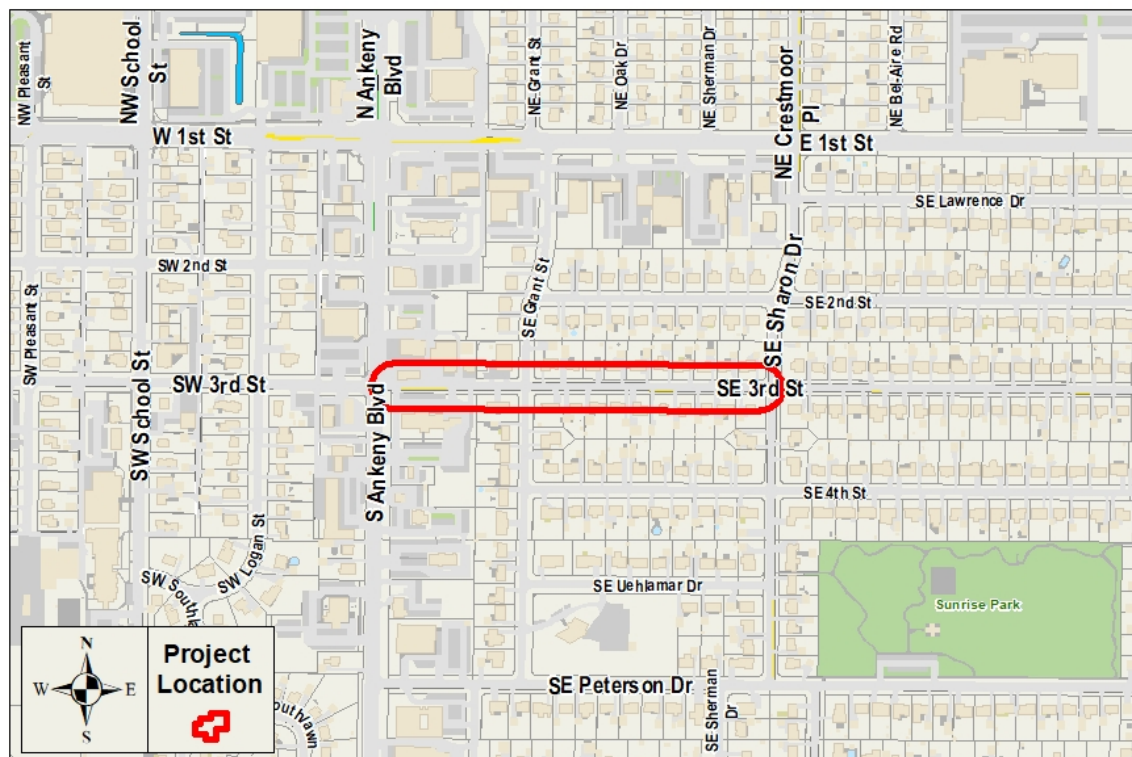
City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # **STM-20-006**

Project Name SE 3rd Street Area Trunk Storm Sewer Improvements



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 2027. 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 2028.

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 2026 through 2027 and construction of the projects in 2027 through 2028. The construction cost estimate for 2027 includes \$100,000 of water main replacement (upgrade existing 4-inch to new 8-inch) along SE 4th Street.

Expenditures	2025	2026	2027	2028	2029	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	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated		190,000	1,320,000	1,330,000		2,840,000
Water Revenue Bonds			100,000			100,000
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.

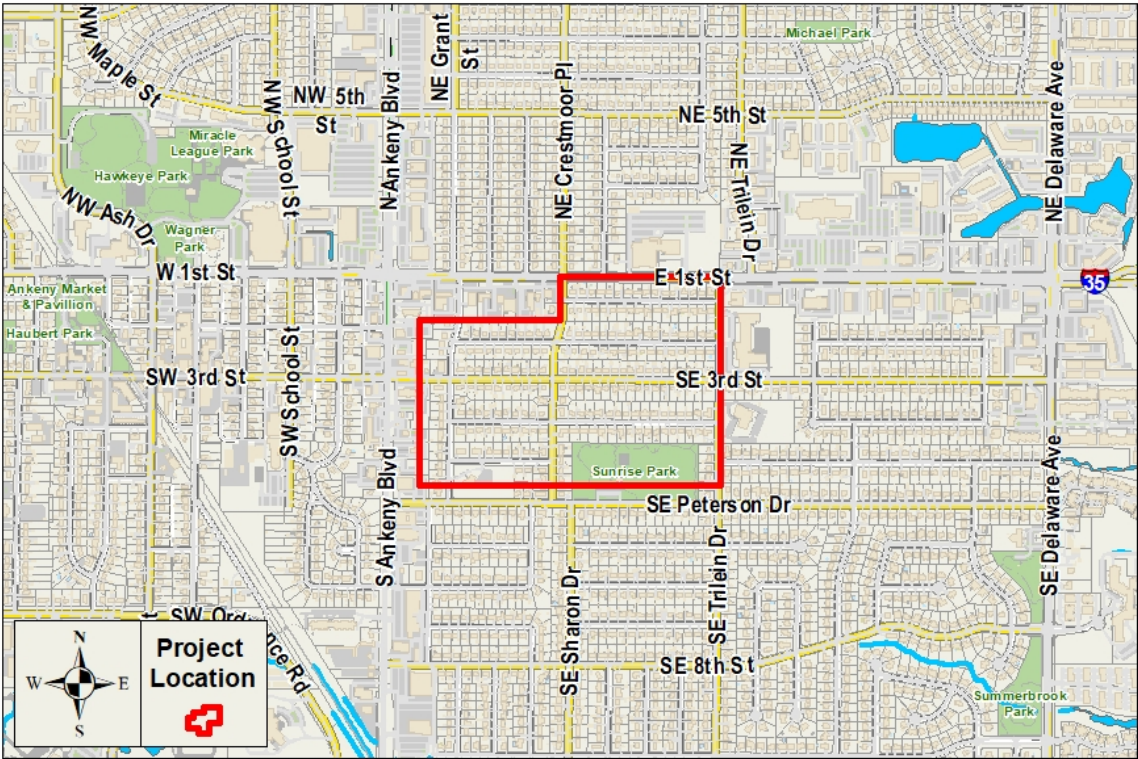
Budget Items	2025	2026	2027	2028	2029	Total
Maintenance Costs			-1,000	-2,000	-2,000	-5,000
Total			-1,000	-2,000	-2,000	-5,000

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Storm Water Utility
Contact City Engineer

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 2027; final design in 2028; and construction in 2029.

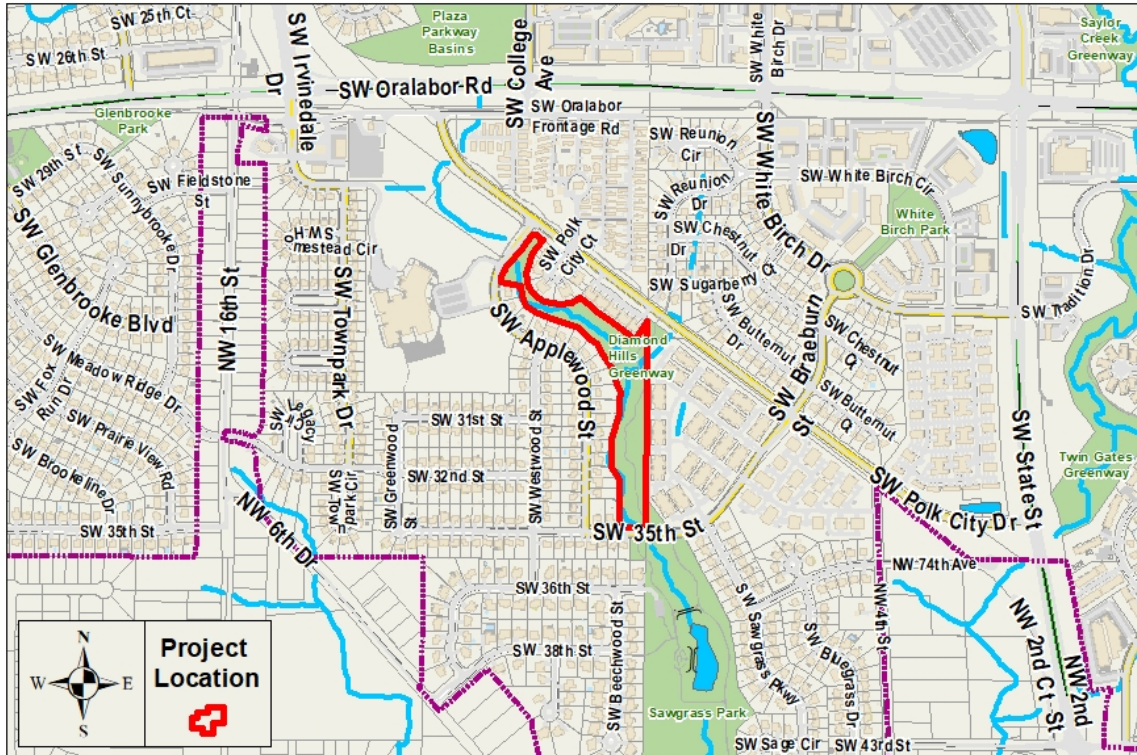
Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design			80,000	80,000		160,000
Engineering-Construction Services					80,000	80,000
Construction Costs					1,770,000	1,770,000
Total			80,000	80,000	1,850,000	2,010,000
Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated			80,000	80,000	1,850,000	2,010,000
Total			80,000	80,000	1,850,000	2,010,000

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design			160,000	150,000		310,000
Engineering-Construction Services					180,000	180,000
Construction Costs					1,320,000	1,320,000
Total			160,000	150,000	1,500,000	1,810,000
Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated			160,000	150,000	1,500,000	1,810,000
Total			160,000	150,000	1,500,000	1,810,000

Budget Impact/Other

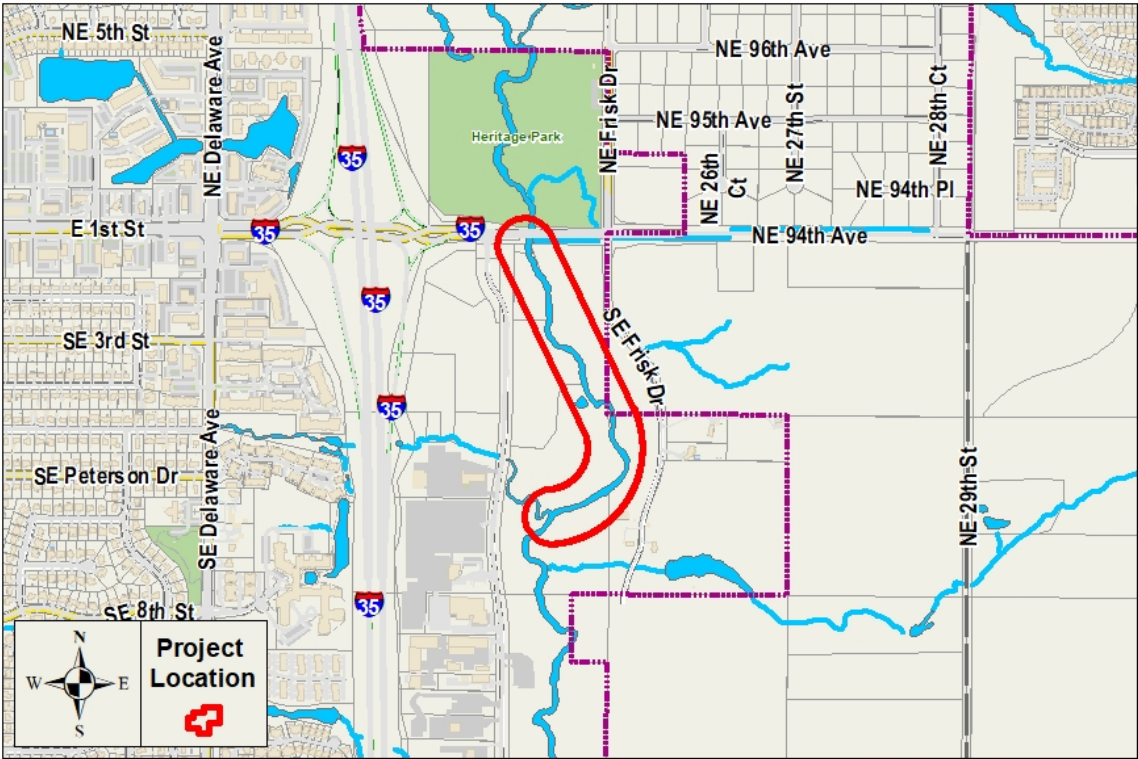
After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Storm Water Utility
Contact City Engineer

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 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 permitting and final design to be completed in 2025, and construction in 2025 through 2026. It is expected that this project will receive funding from Polk County to pay for 70% of the design, permitting, construction, and construction administration and observation.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	163,000	96,000				259,000
Construction Costs	276,000	419,000				695,000
Total	439,000	515,000				954,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated	439,000	515,000				954,000
Total	439,000	515,000				954,000

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	2025	2026	2027	2028	2029	Total
Maintenance Costs			15,000	15,000	15,000	45,000
Total			15,000	15,000	15,000	45,000

Project # STM-22-004

Project Name Four Mile Creek Channel Stabilization-NE 36th St



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 to be completed in 2027. Construction (including construction administration and observation) is anticipated to occur in 2028.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design		190,000	210,000			400,000
Engineering-Construction Services				400,000		400,000
Construction Costs				3,000,000		3,000,000
Total		190,000	210,000	3,400,000		3,800,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated		190,000	210,000	3,400,000		3,800,000
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. The maintenance costs associated with establishing the native vegetation should reduce significantly three (3) years post construction.

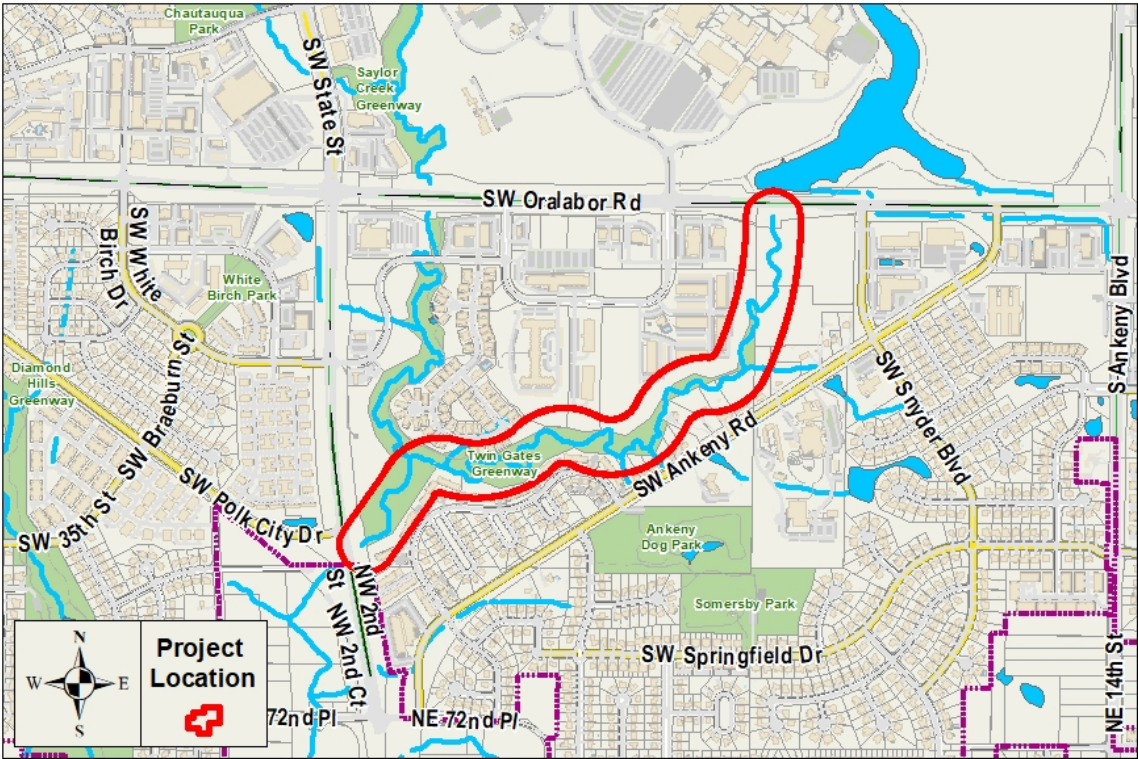
Budget Items	2025	2026	2027	2028	2029	Total
Maintenance Costs					15,000	15,000
Total					15,000	15,000

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Storm Water Utility
Contact City Engineer

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-23-001

Project Name Four Mile Channel Stabilization-Heritage Park

Description

Improvements to address safety, functionality, sedimentation, erosion and associated issues within Four Mile Creek, located through Heritage Park. The improvements 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 structures which have caused safety and functionality concerns. The project costs are shown for the design and permitting to be completed in 2025, with construction in 2025 and 2026. It is expected that this project will receive funding from Polk County to pay for 70% of the design, permitting, construction, and construction administration and observation.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	55,000	39,000				94,000
Construction Costs	83,000	192,000				275,000
Total	138,000	231,000				369,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated	138,000	231,000				369,000
Total	138,000	231,000				369,000

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.

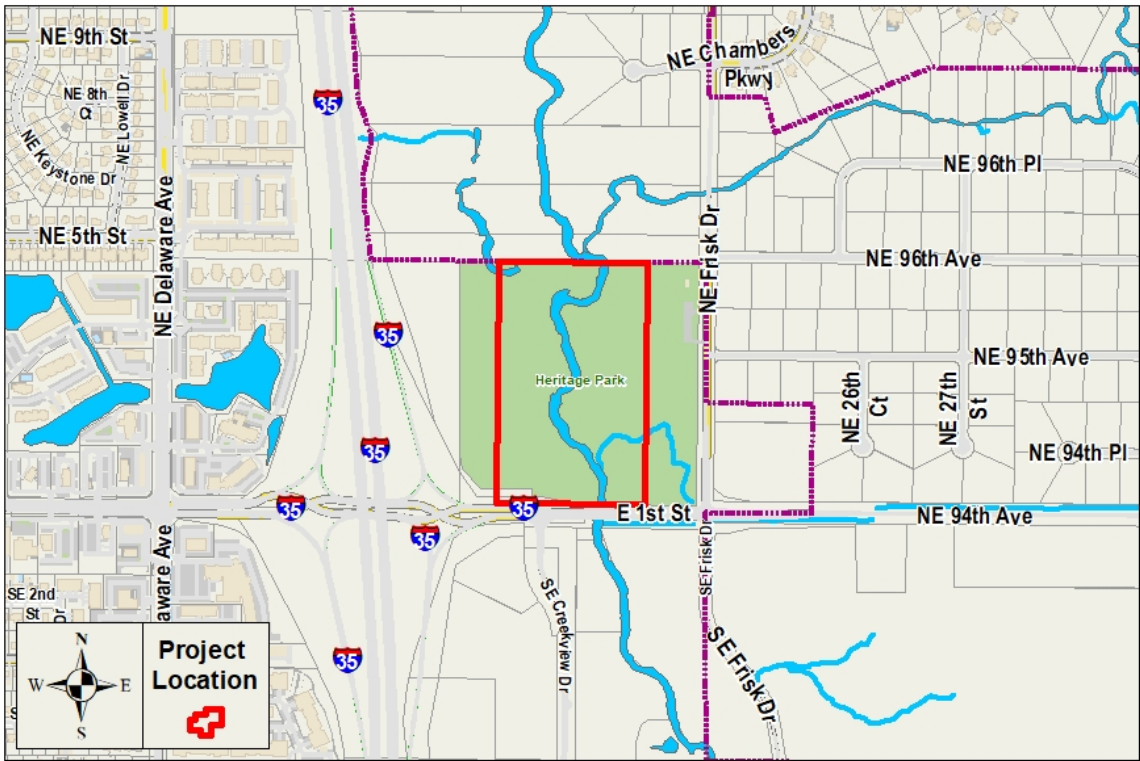
Budget Items	2025	2026	2027	2028	2029	Total
Maintenance Costs			10,000	10,000	10,000	30,000
Total			10,000	10,000	10,000	30,000

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Storm Water Utility
Contact City Engineer

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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:

- \$435,000 (approximately 46%) of the total project cost is associated with the stormwater infrastructure improvements.
- \$505,000 (approximately 54%) 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	2025	2026	2027	2028	2029	Total
Engineering-Construction Services		20,000				20,000
Construction Costs		920,000				920,000
Total		940,000				940,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds		505,000				505,000
G.O. Bonds - Storm Water Abated		435,000				435,000
Total		940,000				940,000

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.

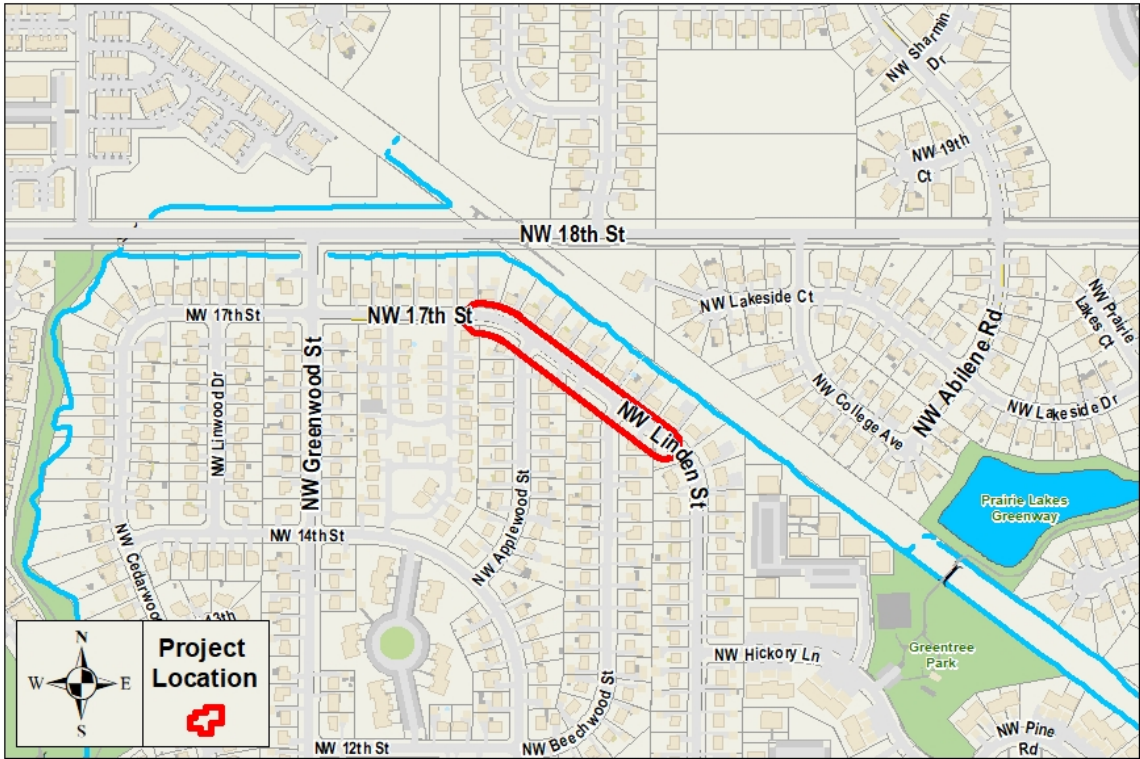
Budget Items	2025	2026	2027	2028	2029	Total
Maintenance Costs			-6,000	-6,000	-6,000	-18,000
Total			-6,000	-6,000	-6,000	-18,000

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Storm Water Utility
Contact City Engineer

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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 1940's and 1950's 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-inch 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 feet. Additional sidewalk easement was 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 construction in 2025 (assumed 60% of the overall) and 2026 (assumed 40% of the overall). The construction cost estimate includes approximately \$385,000 for storm sewer improvements, \$475,000 for sanitary sewer improvements, and \$470,000 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	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	135,000	90,000				225,000
Construction Costs	1,250,000	850,000				2,100,000
Total	1,385,000	940,000				2,325,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - Storm Water Abated	461,667	313,333				775,000
Sewer Fund	461,667	313,334				775,001
Water Fund	461,666					461,666
Water Revenue Bonds		313,333				313,333
Total	1,385,000	940,000				2,325,000

Budget Impact/Other

In the long term, replacing the deteriorated storm sewer infrastructure, the sanitary sewer, water main, and street pavement will reduce annual maintenance costs for the Public Works and Municipal Utilities Departments.

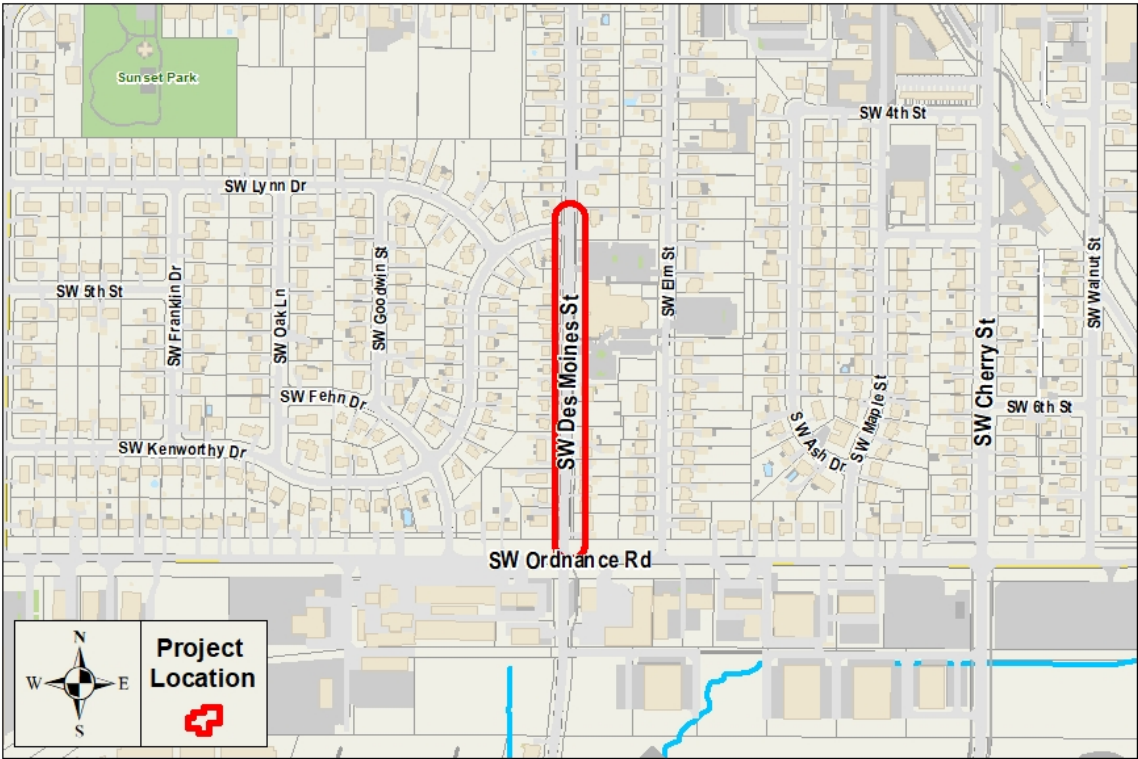
Budget Items	2025	2026	2027	2028	2029	Total
Maintenance Costs			-9,000	-9,000	-9,000	-27,000
Total			-9,000	-9,000	-9,000	-27,000

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Storm Water Utility
Contact City Engineer

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



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Type Improvement

Useful Life 40 years

Category Water Mains

Project # WTM-00-001

Project Name Annual Water Main Replacement Program

Description

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

Specific projects for 2025 - 2029 include the following:

- Development water main oversizing: 2025 - \$125,000 and 2026 - 2029 - \$75,000/year

- 1/3 NW Northlawn Area Utility Improvements (Phase 4):

o2025 - \$500,000 (Phase 4 Construction) and \$25,000 (Phase 4 Construction Engineering)

- 1/4 Westlawn Place Area Utility Improvements (16 Phases over 8 years – 2026 - 2033):

o2025 - \$150,000 (Phase 1 Design Engineering) and \$75,000 (Acquisitions for all phases)

o2026 - \$1,375,000 (Phase 1 Construction) and \$75,000 (Phase 1 Construction Engineering) and \$100,000 (Phase 2 Design Engineering)

o2027 - \$1,000,000 (Phase 2 Construction) and \$75,000 (Phase 2 Construction Engineering) and \$100,000 (Phase 3 Design Engineering)

o2028 - \$1,150,000 (Phase 3 Construction) and \$75,000 (Phase 3 Construction Engineering) and \$100,000 (Phase 4 Design Engineering)

o2029 - \$1,150,000 (Phase 4 Construction) and \$75,000 (Phase 4 Construction Engineering) and \$125,000 (Phase 5 Design Engineering)

Justification

The water main proposed for replacement are primarily 4-inch 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-inch main that will be cost shared for several upcoming projects along major corridors.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design	150,000	100,000	100,000	100,000	125,000	575,000
Engineering-Construction Services	25,000	75,000	75,000	75,000	75,000	325,000
Construction Costs	625,000	1,450,000	1,075,000	1,225,000	1,225,000	5,600,000
Land/ROW Acquisition	75,000					75,000
Total	875,000	1,625,000	1,250,000	1,400,000	1,425,000	6,575,000

Funding Sources	2025	2026	2027	2028	2029	Total
Water Fund	875,000	1,625,000	1,250,000	1,400,000	1,425,000	6,575,000
Total	875,000	1,625,000	1,250,000	1,400,000	1,425,000	6,575,000

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	2025	2026	2027	2028	2029	Total
Utilities	500	500	500	500	500	2,500
Total	500	500	500	500	500	2,500

2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-00-001

Project Name Annual Water Main Replacement Program



city of
Ankeny

bringing it all together

2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

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

Description

Install approximately 3,600 LF of 8-inch water main along the west side of SW Walnut Street from SW 3rd Street to the north side of SW Ordinance Road, and along SW Ordinance Road from SW Cherry Street to an existing main adjacent to the police station. The project will provide increased reliability of the distribution system within this area, as the main will be upsized from 4-inch to 8-inch. The project will utilize mostly boring with a small amount of open cut construction methods.

Justification

The existing 4-inch 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, SW Cherry Street, and SW 2nd Street. The cost for these improvements is estimated at \$375,000.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Construction Services	150,000					150,000
Construction Costs	1,300,000					1,300,000
Total	1,450,000					1,450,000

Funding Sources	2025	2026	2027	2028	2029	Total
G.O. Bonds - TIF Abated	375,000					375,000
Water Revenue Bonds	1,075,000					1,075,000
Total	1,450,000					1,450,000

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	2025	2026	2027	2028	2029	Total
Utilities	255					255
Total	255					255

City of Ankeny, Iowa

2025 *thru* 2029

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-20-002**

Project Name SW Walnut Street and SW Ordnance Road Water Main



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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-inch water main between SW Linden Street and SW Sharmin Drive, located north of SW 3rd Street. By upsizing from 6-inch to 8-inch 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 2027.

Justification

The existing 6-inch 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 locate the break.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design		64,000				64,000
Engineering-Construction Services			53,000			53,000
Construction Costs			533,000			533,000
Total		64,000	586,000			650,000

Funding Sources	2025	2026	2027	2028	2029	Total
Water Revenue Bonds		64,000	586,000			650,000
Total		64,000	586,000			650,000

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.

Budget Items	2025	2026	2027	2028	2029	Total
Utilities			100			100
Total			100			100

City of Ankeny, Iowa

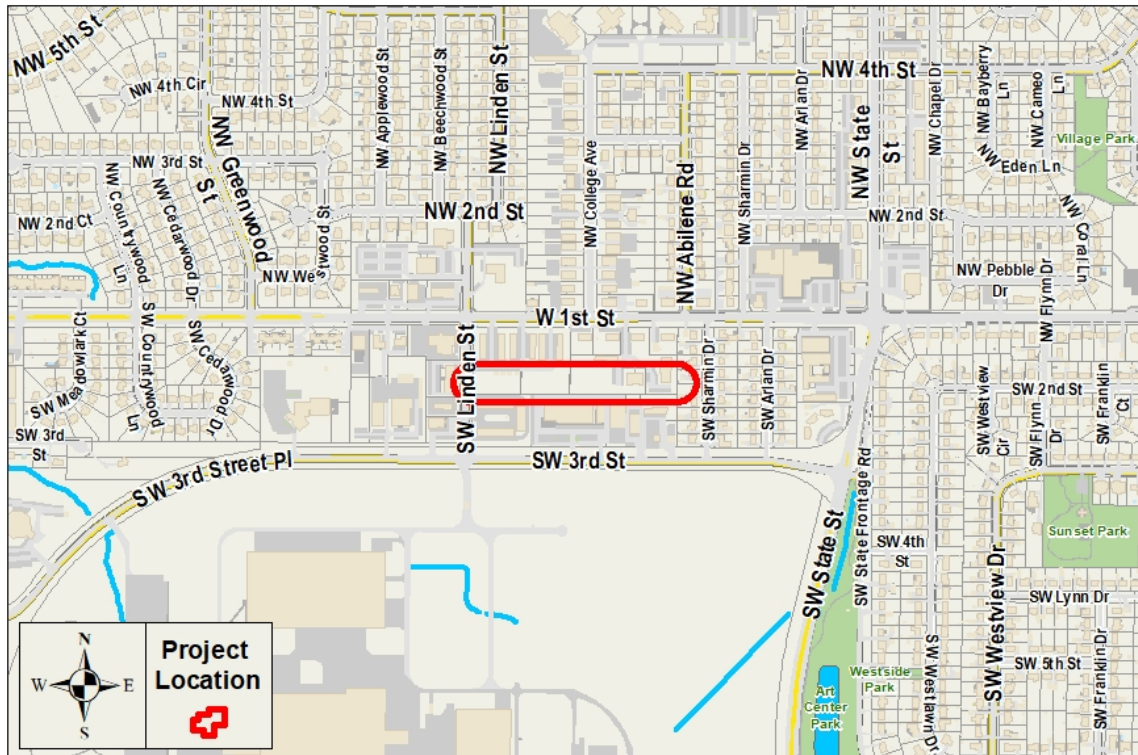
2025 *thru* 2029

Department Water Utility

Contact Municipal Utilities Director

Project # **WTM-24-001**

Project Name SW Linden and SW Sharmin Water Main Improvements



2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

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

Project #	WTM-25-001
Project Name	SW Oralabor Road Transmission Main

Description

This project will construct approximately 8,500 LF of 24-inch transmission water main and will complete the transmission loop on the north side of SW Oralabor Road, from just west of South Ankeny Boulevard to just east of SW Irvinedale Drive. This project was listed in the 2016 Water System Mater Plan. This project will be designed in 2029 and will be constructed in 2030 with a cost estimate of \$4,750,000.

Justification

This project will complete the 24-inch diameter transmission main framework for the City. It will provide a redundant loop of water transmission main between our 2 main 24-inch diameter feeds from the south side of the City provided from DMWW. This project would enhance our ability to move water freely from the west side of Ankeny to the east side.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design					250,000	250,000
Land/ROW Acquisition					50,000	50,000
Total					300,000	300,000

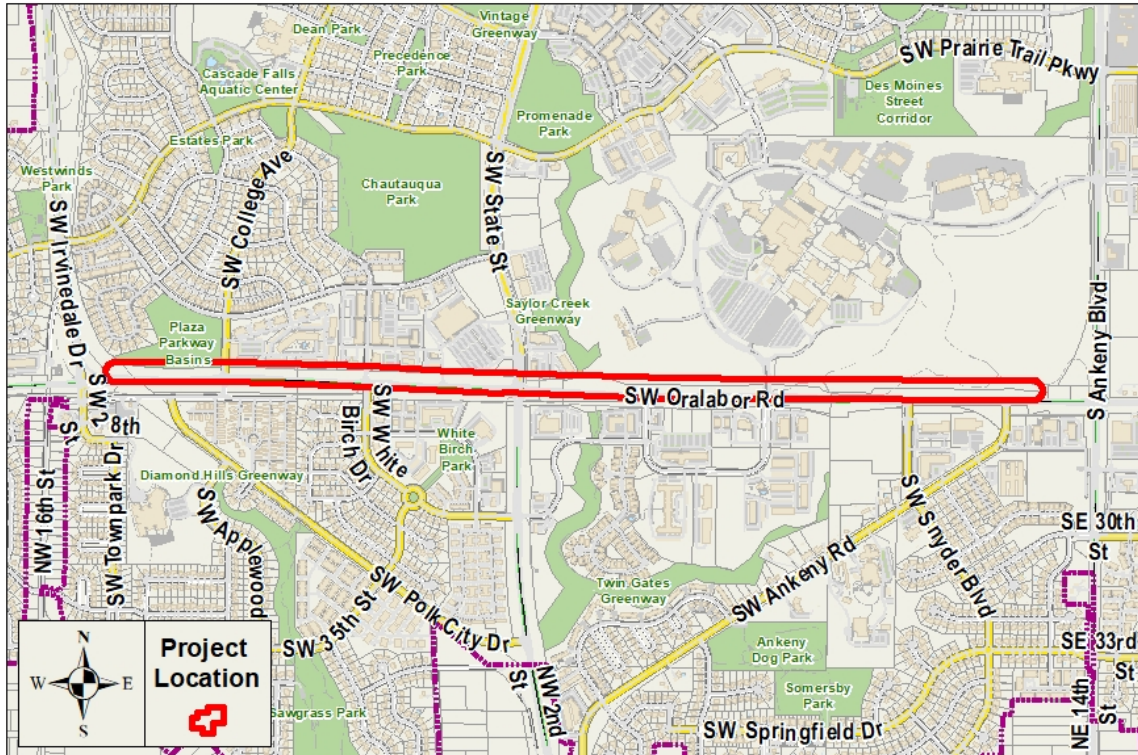
Funding Sources	2025	2026	2027	2028	2029	Total
Water Revenue Bonds					300,000	300,000
Total					300,000	300,000

Budget Impact/Other

This project will take 1,400,000 gallons to fill and flush this main.

Project # WTM-25-001

Project Name SW Oralabor Road Transmission Main



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

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

Description
This project is to repaint the interior and exterior of the SW Irvinedale Elevated Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically, painted surfaces can 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 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	2025	2026	2027	2028	2029	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

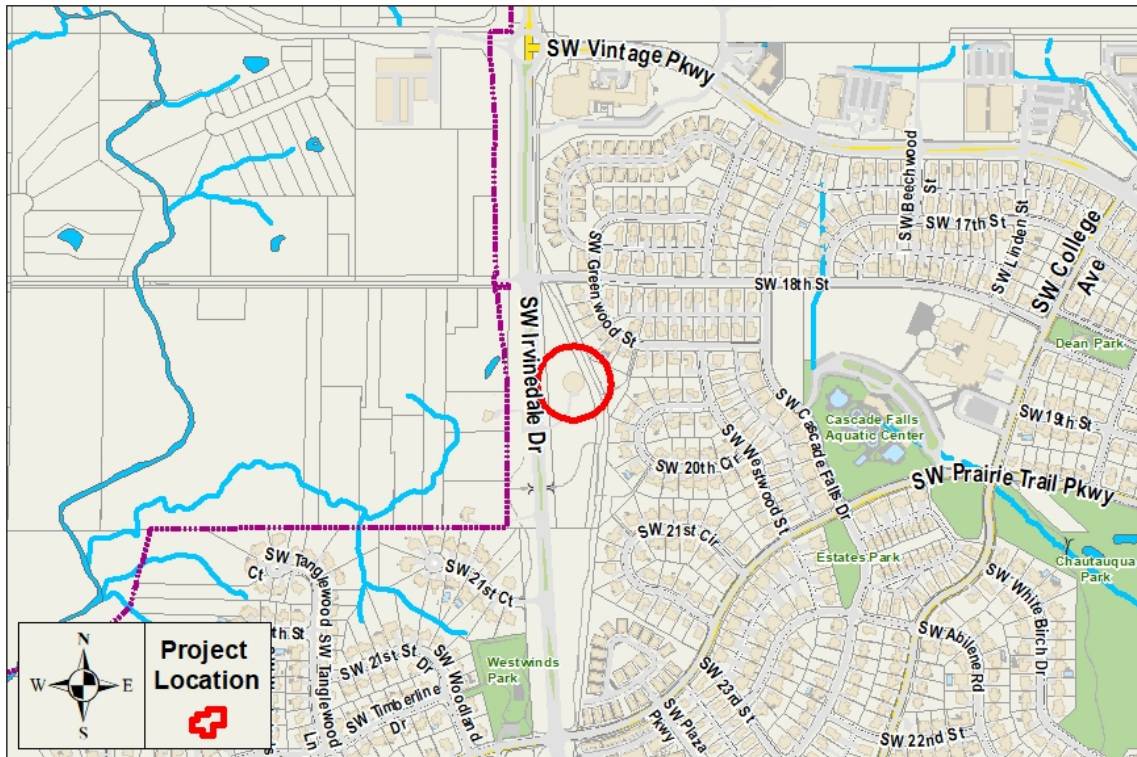
Funding Sources	2025	2026	2027	2028	2029	Total
Water Revenue Bonds			90,000	1,187,000		1,277,000
Total			90,000	1,187,000		1,277,000

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

Budget Items	2025	2026	2027	2028	2029	Total
Utilities				8,100		8,100
Total				8,100		8,100

Project # WTT-23-001

Project Name SW Irvinedale Elevated Storage Tank Repaint



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

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	Elevated Water Storage Tower No. 4

Description
Construct a new 2.5 million gallon elevated water storage tank in the central part of the City to provide additional water storage and allow for future maintenance of other water towers within the City.

Justification
The proposed site is located where the existing Ash Water Tower is currently. It is proposed to construct the largest elevated water tower that can fit onto this property, hoping it would be in the 2 – 2.5 MG range. This location was selected as a potential cost saving measure and it is possible another site will need to be established if we cannot fit the new elevated water tower at this site. We anticipate remaining as close as we can to the existing 24-inch water main framework to save additional transmission main costs.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design	400,000					400,000
Engineering-Construction Services		150,000	150,000			300,000
Construction Costs		5,000,000	5,000,000			10,000,000
Total	400,000	5,150,000	5,150,000			10,700,000
Funding Sources	2025	2026	2027	2028	2029	Total
Water Fund	400,000					400,000
Water Revenue Bonds		5,150,000	5,150,000			10,300,000
Total	400,000	5,150,000	5,150,000			10,700,000

Budget Impact/Other
The design phase would require an 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 Central Water Tower. Filling and flushing the tower would take approximately 4,000,000 gallons of water.

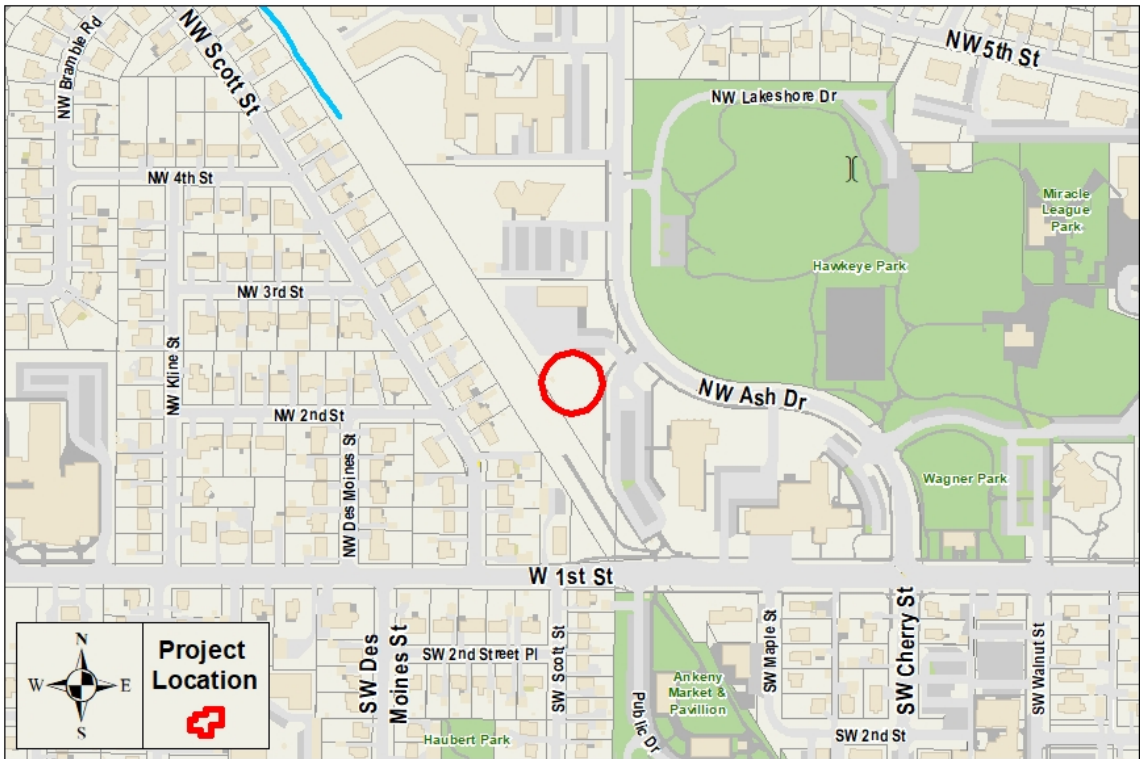
Budget Items	2025	2026	2027	2028	2029	Total
Utilities			19,440			19,440
Total			19,440			19,440

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 thru 2029

Department Water Utility
Contact Municipal Utilities Director

Project #	WTT-24-001
Project Name	Elevated Water Storage Tower No. 4



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

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

Project #	WTT-25-001
Project Name	ASR Well No. 2 Rehabilitation

Description
ASR No. 2 is located at 3700 NE Otter Creek Drive which is generally located north of NE 36th Street and Fire Station No. 3. This project is to rehabilitate the Jordan well associated with Aquifer Storage Recovery Well No. 2, as well as replace the existing 2012 pump/motor. It will also update the injection system with the installation of a Baski valve, which has become the preferred method used in ASR wells as you can control the velocity or amount of water that is injected or recovered.

Justification
This project is necessary due to the slow decline in recoverable water volumes over time due to mineral and sediment buildups, that can slow water movement into the well shaft, lower static water levels in the Jordan aquifer and mechanical wear on the pump and impeller over time. The timing of the project is projected to allow for some development of the new ASR No. 3 with the hope that ASR No. 1 will still be functioning. This will allow for the minimum effect on deliverable water volumes for peak needs of Ankeny customers during the rehab and returned capacity for the long-term operation of this well. Northway Well and Pump provided the estimated total construction cost of \$2,000,000.

Expenditures	2025	2026	2027	2028	2029	Total
Engineering-Design				200,000		200,000
Engineering-Construction Services					200,000	200,000
Construction Costs					2,000,000	2,000,000
Total				200,000	2,200,000	2,400,000
Funding Sources	2025	2026	2027	2028	2029	Total
Water Revenue Bonds				200,000	2,200,000	2,400,000
Total				200,000	2,200,000	2,400,000

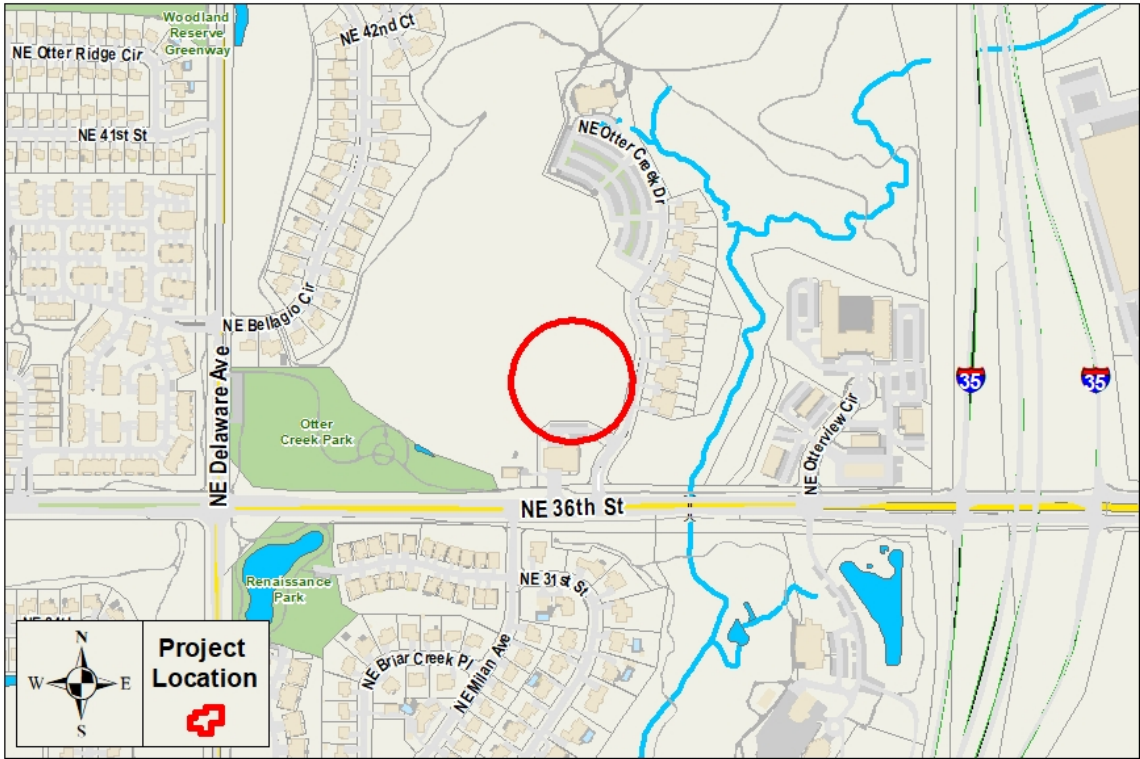
Budget Impact/Other
ASR No. 2 is our largest capacity Aquifer Storage and Recovery well. It helps to ensure that peak capacity needs are met, purchase capacities are not exceeded, and as a limited emergency source if other production or distribution assets are not available. It is likely that Ankeny will lose a recovery cycle during the rehab and we are planning for this during a time when our capacity will be high with the formation of CIWW and also with the hope that ASR No. 1 will still be functional. We are also assuming that ASR No. 3 will be available to help with some of the loss of capacity during this rehabilitation. The well is currently recovering approximately 2.4 MGD of its 3 MGD design capacity.

2025 - 2029 Capital Improvement Program
City of Ankeny, Iowa

2025 *thru* 2029

Department Water Utility
Contact Municipal Utilities Director

Project #	WTT-25-001
Project Name	ASR Well No. 2 Rehabilitation



2025 - 2029 Capital Improvement Program

2025 *thru* 2029

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Type Maintenance

Useful Life 20 years

Category Water Mains

Project # WTT-25-002

Project Name SCADA System Upgrade

Description

This project is to update the current SCADA equipment (PLC, Radios, and Antennas) at the Water Shop Maintenance Facility, SW Irvinedale Tower, Ash Tower, Magazine Pump Station, and Delaware Pump Station. The current radios and antennas are outdated and unavailable and the PLC needs to be upgraded to handle the growing number of facilities that the City owns and maintains. Upon completion of the NW Water Tower in 2025, there will need to be equipment that communicates between it and the NW Booster Station and ultimately relay the information back to the Water Shop. It is also requested to include ASR No. 2 and ASR No. 3 into the SCADA telemetry. Radio telemetry is the only option that currently works with the water facilities as the Ankeny Fiber Network is building out. As fiber becomes available at our facilities we can convert to a fiber connection, but would still have the redundancy via telemetry if the fiber was to fail. Those facilities that do not have or will not have a fiber connection, would continue to communicate through radio telemetry.

Justification

This project will allow the Water Division and DMWW to continue to monitor and operate the current core facilities without concern of an outage due to aged equipment that may not be available for replacement. The addition of the NW Booster Station and the NW Irvinedale Water Tower will be critical to future operations. The addition of the ASRs will allow monitoring and troubleshooting from a central location. Future facilities would be added into our SCADA system as they come online and those costs would be added into those projects as our system expands.

Expenditures	2025	2026	2027	2028	2029	Total
Construction Costs		125,000				125,000
Furniture, Fixtures & Equipment		100,000				100,000
Total		225,000				225,000
Funding Sources	2025	2026	2027	2028	2029	Total
Water Revenue Bonds		225,000				225,000
Total		225,000				225,000

Budget Impact/Other

This project would ensure that staff and DMWW continue to have the ability to monitor and operate the core facilities and also check into alarms from facilities at the centralized console at the Water Shop. This would reduce unnecessary trips to facilities and potentially allow for corrections to be made in a quicker timeline, reducing any damages caused from delays in getting to facilities. We currently experience glitches with the old system but to date have been able to reset the system effectively. Having all Water facilities tied into the telemetry system not only provides immediate information to Operators but stores long term data trends to help make future decisions on the operation of the entire distribution system.

Project # WTT-25-002

Project Name SCADA System Upgrade



city of
Ankeny

bringing it all together