



city of
Ankeny

bringing it all together

Capital Improvement Program



Calendar Years 2018 - 2022

2018-2022

CAPITAL IMPROVEMENT PROGRAM

INTRODUCTION

The capital improvement program serves as a guide for the provision of public improvements, outlining the timing and financing of projects for a five-year period. The capital budget is a significant portion of the fiscal year 2019 budget. It includes the costs associated with the 2018 capital projects, the first year of the 2018-2022 Capital Improvement Program.

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

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

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

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

FISCAL OVERVIEW

The 2018-2022 Capital Improvement Program reflects a \$9,616,512 increase in project expenditures over last year's program. Approximately \$8.1 million of the increase is related to additional water main and storage projects added as a result of the Joint Water System Master Plan. The program also includes the reduction of \$7.4 million in Prairie Trail projects and the addition of \$4.8 million related to the construction of a senior center and replacement of the Hawkeye Park tennis courts.

GOALS

The City Council's goals provide policy guidance for the evaluation of capital improvement projects. These goals include:

- High performing city organization: financially sound, providing service value;
- Responsible growth and revitalization;
- Preservation of Ankeny's hometown feel; and
- Ankeny as a successful business center

In addition to these goals, the Ankeny Comprehensive Plan serves as the basis for many of the city's policy decisions related to a wide range of issues including decisions related to capital projects. Comprehensive Plan goals related to the 2018-2022 Capital Improvement Program include:

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

PROCESS

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

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

- Meets legal mandates
- Reduces hazards and improves public safety
- Advances a council goal or priority
- Improves efficiency
- Maintains standards of service
- Supports economic development
- Improves services and convenience
- Affordability
- Improves the quality of life or aesthetic values

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

Since the 2018 capital improvement projects will become part of the adopted 2019 budget, the emphasis in the capital improvement process is on the 2018 capital program. The projects for the remaining four years of the program become part of the city’s long-term financial program. Although not an official part of the capital improvements program, an overall summary is included that contains an additional five years of high priority projects.

PROGRAM OVERVIEW

For 2018-2022, the capital improvement program totals \$142,922,999. Of the total, 33% is identified for transportation projects, 28% for municipal utilities (water, sewer and storm water) projects, 25% for municipal buildings, 7% for Prairie Trail projects, 4% for sidewalks and trails and 3% for parks.

Capital budget requirements for 2018 total \$53,276,000. Capital spending authorizations by project category for the upcoming year include:

Bridge/Box Culvert	\$1,775,000	3.33%
Prairie Trail	5,279,000	9.91%
Municipal Buildings	24,936,000	46.81%
Parks	1,566,000	2.94%
Sewer	2,700,000	5.07%
Sidewalks/Trails	800,000	1.50%
Storm Water	820,000	1.54%
Streets	7,793,000	14.63%
Traffic Control	875,000	1.64%
Water	6,177,000	11.59%
Water Towers/Storage	555,000	1.04%

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

FINANCIAL PLAN

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

The financial plan presents a diversified approach to funding the 2018-2022 Capital Improvement Program with 64% coming from sources other than property taxes. The plan focuses on finding revenue sources from outside the community to lessen the burden on taxpayers and aggressively seeks partnerships for enhancing the city’s infrastructure. The capital improvement program financial plan relies on regular general obligation debt with substantial reinvestment in infrastructure. Typically, any infrastructure

reinvestment, such as street rehabilitation, is funded primarily by property taxes from the debt service levy.

Below is a summary of the funding sources for the 2018-2022 Capital Improvement Program.

Funding Source	Revenue (\$)	% of Revenue
Property Taxes	\$51,624,999	36%
Grants and Intergovernmental	7,056,000	5%
Tax Increment Financing	13,338,000	9%
Municipal Utilities Revenues	42,362,000	30%
Miscellaneous Revenues	28,542,000	20%
Total	\$142,922,999	100%

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

PROPERTY TAXES

Property taxes, specifically those collected through the city's debt service levy, are the largest source of revenue for the capital improvement program representing \$51,624,999, or 36%, of the overall financial plan. Property tax revenue is used to make principal and interest payments on general obligation debt issued by the city to pay for infrastructure projects.

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

1. Regular general obligation debt—debt service levy
2. Water-abated general obligation debt—reimbursement received from water fund
3. Sewer-abated general obligation debt—reimbursement received from sewer fund
4. Storm water-abated general obligation debt—reimbursement received from storm water fund
5. Tax increment financing (TIF)-abated general obligation debt—reimbursement received from tax increment financing fund
6. Referendum approved general obligation debt—additional debt service levy authority for capital projects approved by a vote of a super-majority of voters.

GRANTS AND INTERGOVERNMENTAL

Each year staff looks for opportunities outside of the normal funding mechanisms (property taxes and utility rates) to assist with the construction of infrastructure projects. These opportunities can include awards of federal and state grants, regional resources or assistance from other governments. The

proposed capital improvement program financial plan identifies \$7,056,000 to be received from grant awards or intergovernmental assistance, representing 5% of all revenue sources. The projects most dependent upon grants and intergovernmental support are the High Trestle Trail extension from SW Ordnance Road to SE Oralabor Road and the West 1st Street widening and improvements. Staff has secured \$600,000 from the Iowa Department of Natural Resources, Des Moines Area Metropolitan Planning Organization (MPO) and Iowa Department of Transportation (DOT) for the High Trestle Trail extension and \$1.38 million from the Des Moines Area MPO for the West 1st Street widening and improvements.

For 2018, staff has secured participation from Polk County on the West 1st Street and Iowa Highway 415 traffic signals and the SW Weigel Drive from NW Polk City Drive to SW Camden Drive and NW 8th Street from NW Polk City Drive to NW Cypress Drive asphalt overlay. Other grant funded projects include the Interstate 35 and SE Corporate Woods Drive southbound ramp traffic signals, NE Delaware Avenue pedestrian bridge and sidewalk connection, Ankeny Boulevard and 1st Street intersection improvements and SE Convenience Boulevard extension, with funding secured from the Des Moines Area MPO and Iowa DOT.

TAX INCREMENT FINANCING

Of the five funding sources, \$13,338,000 or 9% of general obligation debt is financed through TIF abatements. The majority of TIF-abated projects are located within the Prairie Trail development. Projects planned for construction in 2018 include SW Plaza Parkway and SW College Avenue extension, SW Des Moines Street trunk sewer from SW Magazine Road to SW Elm Street, SW Market Street, SW Prairie Trail Parkway sidewalk improvements, SW State Street and SW Magazine Road intersection improvements and SE Creekview Drive drainage improvements. Design is planned in 2018 for SW Des Moines Street from SW Prairie Trail Parkway to SW Magazine Road, with construction to follow in 2019.

MUNICIPAL UTILITIES

The municipal utilities (water, sewer, and storm water) help support numerous infrastructure projects to ensure each utility can adequately provide service to Ankeny's utility customers. Resources from the utility funds make up \$42,362,000, or 30%, of the capital improvement program financial plan.

Projects within the annual utility programs for 2018 include:

- SW 3rd Street from SW Maple Street to SW Scott Street water main improvements;
- SE Eastlawn Area utility improvements;
- Sanitary sewer spot repairs, manhole repairs and slip lining; and
- Storm water repair projects – North Creek erosion repair, SE Oralabor Road culvert removal, Prairie Trail bioswales rehabilitation, North Prairie Bend basin repair, Magazine Road storm sewer improvements, High Trestle Trail clear and grub and culvert removal and SW 2nd Street and SW Flynn Drive intersection improvements.

Major utility projects planned for 2018 include the Ash Tower transmission main, NW Booster Station, Deer Creek trunk sewer, SE Delaware bank stabilization and SE Peterson Drive & SE Trilein Drive storm sewer improvements.

MISCELLANEOUS REVENUES

The financial plan includes contributions from miscellaneous sources, totaling \$28,542,000, or 20%, of the 2018-2022 Capital Improvement Program. This includes Ankeny Community Foundation contributions, capital project fund cash balances, capital reserve fund cash balances, civic trust fund contributions, general fund cash balances, golf course fund cash balances, Hawkeye Park player fees fund cash balances, hotel/motel tax fund revenues, park dedication fund cash balances, private contributions, road use tax fund revenues and sports complex foundation fund cash balances. Capital reserve fund cash balances and civic trust fund contributions total \$20.04 million or 70% of miscellaneous revenues. These funds will be used to offset the borrowing costs of the new library, renovation of the Kirkendall Public Library and Fire Station No. 3.

CONCLUSION

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

Projects proposed for completion from 2018 through 2022 will sustain existing infrastructure and support the expansion of new economic development opportunities. It is noted, however, that a significant number of projects will need to be considered in the future. With this in mind, the capital improvement program represents a balanced approach, making prudent investments while targeting construction in areas essential to sustaining Ankeny's commitment to attracting businesses, managing growth and expanding the quality of life.

Section 1

2018-2022 Capital Improvement Program

2018 CIP Projects by Funding Source

Project	Project #	2018	General Obligation Bonds				Revenue Bonds		Miscellaneous							
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other	
Annual Park Development Program	PRK-00-002	\$500,000	\$450,000							\$50,000						
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$680,000	\$305,000							\$50,000			\$325,000			
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$675,000								\$675,000						
Annual Storm Water Replacement Program	STM-00-001	\$270,000								\$270,000						
Annual PCC Street Patching Program	STR-00-001	\$760,000	\$760,000													
Annual Asphalt Street Resurfacing Program	STR-00-002	\$209,000	\$154,000							\$55,000						
Annual Pavement Preservation Program	STR-00-003	\$200,000	\$200,000													
Annual Street Replacement Program	STR-00-004	\$300,000											\$300,000			
Annual Traffic Signal Improvement Program	TRF-00-001	\$875,000	\$290,000							\$435,000	\$150,000					
Annual Water Main Replacement Program	WTM-00-001	\$900,000								\$900,000						
Fire Station No. 3	BLD-15-001	\$4,000,000				\$2,550,000									\$1,450,000	
Library and Former Library Renovation	BLD-16-001	\$20,300,000				\$3,800,000									\$5,000,000	\$11,500,000
Community Entrance Signs	BLD-18-002	\$321,000								\$25,000	\$296,000					
Senior Center	BLD-18-003	\$315,000													\$315,000	
NE Delaware Avenue Pedestrian Bridge and Sidewalk Connection	BRG-14-002	\$700,000	\$550,000							\$150,000						
NE 54th Street Bridge Replacement and Trail Connection	BRG-15-001	\$100,000	\$100,000													
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	\$975,000	\$975,000													
SW Plaza Parkway and SW College Avenue Extension	COR-15-001	\$2,460,000				\$2,460,000										
SW Des Moines Street Trunk Sewer - SW Magazine Road to SW Elm Street	COR-16-003	\$414,000				\$414,000										
SW Des Moines Street - SW Prairie Trail Parkway to SW Magazine Road	COR-16-004	\$390,000				\$390,000										
The District at Prairie Trail - SW Market Street	COR-17-002	\$1,240,000				\$1,240,000										
SW Prairie Trail Parkway Sidewalk Improvements	COR-17-003	\$125,000				\$125,000										
SW State Street and SW Magazine Road Intersection Improvements	COR-18-001	\$650,000				\$650,000										
Prairie Ridge Sports Complex - Field Lighting	PRK-09-001	\$190,000									\$95,000					\$95,000
Ankeny Market & Pavilion	PRK-13-001	\$97,000										\$97,000				
Hawkeye Park Sports Complex - Field Lighting	PRK-13-002	\$275,000	\$50,000							\$70,000	\$155,000					
Prairie Ridge Sports Complex - Drainage Improvements	PRK-14-002	\$76,000								\$76,000						
Older Parks Renovation Plan	PRK-17-003	\$365,000								\$365,000						
Otter Creek Golf Course Patio Addition	PRK-18-002	\$63,000								\$63,000						
High Trestle Trail Extension - SW Ordinance Road to SE Oralabor Road	SDW-16-001	\$120,000	\$120,000													
Deer Creek Trunk Sewer	SNS-17-001	\$1,475,000								\$1,475,000						
SE Delaware Bank Stabilization	SNS-18-001	\$325,000								\$325,000						
Sanitary Sewer Study and Master Plan	SNS-18-002	\$225,000								\$225,000						
SE Peterson Drive & SE Trilein Drive Storm Sewer Improvements	STM-18-001	\$550,000								\$550,000						
SE Creekview Drive Drainage and Paving Improvements	STR-05-003	\$950,000				\$525,000		\$425,000								
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$65,000	\$65,000													
NW Irvinedale Drive & NW 5th Street Intersection Improvements	STR-14-005	\$2,900,000	\$2,550,000					\$300,000		\$50,000						
Ankeny Boulevard and 1st Street Intersection Improvements	STR-15-001	\$850,000	\$350,000							\$500,000						
South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Parkway Intersection Improvements	STR-16-001	\$275,000	\$275,000													
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$100,000	\$100,000													
South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$40,000											\$40,000			
SE Convenience Boulevard Extension	STR-18-009	\$1,144,000								\$435,000						\$709,000
Ash Tower Transmission Main	WTM-15-002	\$2,100,000						\$2,100,000								
NW Booster Station	WTM-15-003	\$2,822,000						\$2,222,000		\$600,000						
SW Irvinedale Drive Transmission Main - Phase 1	WTM-17-004	\$225,000						\$225,000								
Trestle Ridge Estates 24" Water Main	WTM-18-002	\$130,000						\$130,000								
Ash Water Tower Repair and Repaint	WTT-17-001	\$180,000						\$50,000		\$130,000						
Concept & Site Study for Future NW Water Tower	WTT-18-001	\$375,000						\$375,000								
		\$53,276,000	\$7,294,000	\$0	\$5,804,000	\$6,350,000	\$5,827,000	\$0	\$1,575,000	\$6,049,000	\$546,000	\$97,000	\$665,000	\$6,765,000	\$12,304,000	

2018 Bond Issue Project Costs	\$19,448,000
Cost of Issuance	\$192,000
Projected 2018 Bond Issue Total	\$19,640,000

2018-2022 Capital Improvement Program

2019 CIP Projects by Funding Source

Project	Project #	2019	General Obligation Bonds				Revenue Bonds		Miscellaneous							
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other	
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000						\$50,000							
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$475,000	\$175,000										\$300,000			
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$568,000							\$568,000							
Annual Storm Water Replacement Program	STM-00-001	\$250,000							\$250,000							
Annual PCC Street Patching Program	STR-00-001	\$713,000	\$713,000													
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000													
Annual Pavement Preservation Program	STR-00-003	\$200,000	\$200,000													
Annual Street Replacement Program	STR-00-004	\$625,000							\$200,000				\$425,000			
Annual Traffic Signal Improvement Program	TRF-00-001	\$550,000							\$50,000				\$500,000			
Annual Water Main Replacement Program	WTM-00-001	\$433,000							\$433,000							
Library and Former Library Renovation	BLD-16-001	\$4,700,000				\$4,700,000										
Community Entrance Signs	BLD-18-002	\$50,000									\$50,000					
Senior Center	BLD-18-003	\$3,775,000						\$1,000,000						\$1,775,000	\$1,000,000	
NE Delaware Avenue Pedestrian Bridge and Sidewalk Connection	BRG-14-002	\$220,000	\$220,000													
NE 54th Street Bridge Replacement and Trail Connection	BRG-15-001	\$1,075,000	\$675,000					\$400,000								
Park Maintenance Facility Renovations	BLD-18-001	\$77,000	\$77,000													
SW Des Moines Street - SW Prairie Trail Parkway to SW Magazine Road	COR-16-004	\$4,910,000				\$4,910,000										
SW State Street Median Study	COR-18-002	\$25,000											\$25,000			
Older Parks Renovation Plan	PRK-17-003	\$200,000							\$200,000							
Hawkeye Park Tennis Courts Replacement	PRK-18-003	\$730,000	\$730,000													
High Trestle Trail Extension - SW Ordinance Road to SE Oralabor Road	SDW-16-001	\$1,260,000	\$660,000						\$600,000							
Deer Creek Trunk Sewer	SNS-17-001	\$1,100,000							\$1,100,000							
Wildflower Detention Basin Improvements	STM-18-002	\$340,000							\$340,000							
SE Creekview Drive Drainage and Paving Improvements	STR-05-003	\$825,000				\$825,000										
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,419,666	\$469,666					\$950,000								
South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Parkway Intersection Improvements	STR-16-001	\$3,100,000	\$2,800,000					\$100,000	\$200,000							
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$600,000	\$600,000													
South Ankeny Boulevard and SW Oralabor Road Safety Studies	STR-18-006	\$45,000											\$45,000			
SE Hulsizer Road Realignment	STR-18-007	\$325,000				\$325,000										
SE Magazine Road Water Main Improvements	WTM-17-003	\$930,000						\$930,000								
SW Irvinedale Drive Transmission Main - Phase 1	WTM-17-004	\$3,000,000						\$3,000,000								
NW State Street Water Main Improvements	WTM-17-005	\$90,000						\$90,000								
SW Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$250,000						\$250,000								
		\$33,360,666	\$7,769,666	\$0	\$6,060,000	\$4,700,000	\$5,320,000	\$0	\$2,200,000	\$3,191,000	\$50,000	\$0	\$1,295,000	\$1,775,000	\$1,000,000	

2019 Bond Issue Project Costs	\$18,529,666
Cost of Issuance	\$205,334
Projected 2019 Bond Issue Total	\$18,735,000

2018-2022 Capital Improvement Program

2020 CIP Projects by Funding Source

Project	Project #	2020	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000						\$50,000						
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$350,000	\$250,000										\$100,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$607,000							\$607,000						
Annual Storm Water Replacement Program	STM-00-001	\$250,000							\$250,000						
Annual PCC Street Patching Program	STR-00-001	\$752,000	\$752,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$200,000	\$200,000												
Annual Street Replacement Program	STR-00-004	\$625,000	\$150,000										\$475,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$350,000	\$350,000												
Annual Water Main Replacement Program	WTM-00-001	\$612,000							\$612,000						
Park Maintenance Facility Renovations	BLD-18-001	\$622,000	\$622,000												
Community Entrance Signs	BLD-18-002	\$50,000								\$50,000					
HVAC Replacement - City Hall	BLD-18-004	\$500,000	\$500,000												
Prairie Ridge Sports Complex - Drainage Improvements	PRK-14-002	\$78,000	\$78,000												
Prairie Ridge Sports Complex - Tee Ball Field	PRK-17-001	\$154,000	\$154,000												
Older Parks Renovation Plan	PRK-17-003	\$251,000							\$251,000						
High Trestle Trail Trailhead and Parking Lot	PRK-18-001	\$130,000	\$130,000												
High Trestle Trail Extension - SW Ordnance Road to SE Oralabor Road	SDW-16-001	\$120,000	\$120,000												
Saylor Creek Tributary Channel Improvements	STM-17-001	\$150,000							\$150,000						
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$1,066,666	\$1,066,666												
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$100,000	\$100,000												
NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	STR-16-002	\$400,000	\$400,000												
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$2,900,000	\$2,150,000						\$750,000						
North Ankeny Boulevard Landscaping Improvements	STR-18-001	\$470,000	\$235,000							\$235,000					
SE Hulsizer Road Realignment	STR-18-007	\$2,125,000		\$1,474,000					\$651,000						
SW Irvinedale Drive Transmission Main - Phase 2	WTM-17-006	\$3,450,000					\$3,450,000								
SW Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$140,000					\$140,000								
		\$16,952,666	\$7,707,666	\$0	\$1,474,000	\$0	\$3,590,000	\$0	\$1,401,000	\$1,920,000	\$285,000	\$0	\$575,000	\$0	\$0

2020 Bond Issue Project Costs	\$9,181,666
Cost of Issuance	\$158,334
Projected 2020 Bond Issue Total	\$9,340,000

2018-2022 Capital Improvement Program

2021 CIP Projects by Funding Source

Project	Project #	2021	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000						\$50,000						
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$350,000	\$250,000										\$100,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$735,000							\$735,000						
Annual Storm Water Replacement Program	STM-00-001	\$250,000							\$250,000						
Annual PCC Street Patching Program	STR-00-001	\$850,000	\$850,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$200,000	\$200,000												
Annual Street Replacement Program	STR-00-004	\$750,000	\$150,000										\$600,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$350,000	\$350,000												
Annual Water Main Replacement Program	WTM-00-001	\$785,000							\$785,000						
Community Entrance Signs	BLD-18-002	\$50,000								\$50,000					
High Trestle Trail Extension - SW Ordnance Road to SE Oralabor Road	SDW-16-001	\$1,260,000	\$710,000						\$550,000						
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	\$260,000								\$260,000					
Saylor Creek Tributary Channel Improvements	STM-17-001	\$650,000		\$650,000											
East 1st Street and I-35 Interchange Reconstruction	STR-11-004	\$666,667	\$666,667												
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$300,000	\$300,000												
NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	STR-16-002	\$3,550,000	\$3,550,000												
West 1st Street Widening & Improvements - Phase 1	STR-16-004	\$2,900,000	\$1,570,000						\$1,330,000						
North Ankeny Boulevard Landscaping Improvements	STR-18-001	\$370,000	\$185,000								\$185,000				
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$20,000	\$20,000												
High Trestle Trail Transmission Main	WTM-17-001	\$200,000					\$200,000								
SW Irvinedale Drive Transmission Main - Phase 3	WTM-17-007	\$1,995,000					\$1,995,000								
Purchase Capacity in Saylorville Feeder Main	WTM-17-008	\$800,000					\$800,000								
NW Tower Transmission Main	WTM-17-009	\$150,000					\$150,000								
Aquifer Storage and Recovery #1 Replacement	WTT-17-002	\$250,000					\$250,000								
		\$18,191,667	\$9,251,667	\$650,000	\$0	\$0	\$3,395,000	\$0	\$1,880,000	\$2,080,000	\$235,000	\$0	\$700,000	\$0	\$0

2021 Bond Issue Project Costs	\$9,901,667
Cost of Issuance	\$178,333
Projected 2021 Bond Issue Total	\$10,080,000

2018-2022 Capital Improvement Program

2022 CIP Projects by Funding Source

Project	Project #	2021	General Obligation Bonds				Revenue Bonds		Miscellaneous						
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Ankeny Community Foundation	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$350,000	\$300,000						\$50,000						
Annual Sidewalk/Trail Construction Program	SDW-00-001	\$350,000	\$250,000										\$100,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	\$720,000							\$720,000						
Annual Storm Water Replacement Program	STM-00-001	\$250,000							\$250,000						
Annual PCC Street Patching Program	STR-00-001	\$835,000	\$835,000												
Annual Asphalt Street Resurfacing Program	STR-00-002	\$150,000	\$150,000												
Annual Pavement Preservation Program	STR-00-003	\$200,000	\$200,000												
Annual Street Replacement Program	STR-00-004	\$600,000	\$300,000										\$300,000		
Annual Traffic Signal Improvement Program	TRF-00-001	\$350,000	\$350,000												
Annual Water Main Replacement Program	WTM-00-001	\$555,000							\$555,000						
Park Maintenance Facility Renovations	BLD-18-001	\$622,000	\$622,000												
Community Entrance Signs	BLD-18-002	\$50,000								\$50,000					
Otter Creek Trunk Sewer - Phase 3	SNS-11-001	\$1,240,000							\$1,240,000						
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	\$150,000							\$150,000						
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	\$4,675,000	\$4,675,000												
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	\$210,000	\$210,000												
NW 36th Street and NW Ash Drive Interim Improvements	STR-18-002	\$25,000	\$25,000												
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	\$25,000	\$25,000												
NW 18th Street Extension - NW Abbie Drive to Iowa Highway 415	STR-18-004	\$460,000	\$460,000												
Prairie Ridge Sports Complex - Parking Lot Access Improvements	STR-18-005	\$100,000	\$100,000												
SW Oralabor Road and DMACC Boulevard Intersection Improvements	STR-18-008	\$100,000	\$50,000												\$50,000
High Trestle Trail Transmission Main	WTM-17-001	\$2,925,000						\$2,925,000							
NW Tower Transmission Main	WTM-17-009	\$1,950,000						\$1,950,000							
South Ankeny Boulevard Transmission Main	WTM-18-001	\$250,000						\$250,000							
Aquifer Storage and Recovery #1 Replacement	WTT-17-002	\$3,750,000						\$3,750,000							
Concept & Site Study for Future NW Water Tower	WTT-18-001	\$250,000						\$250,000							
		\$21,142,000	\$8,552,000	\$0	\$0	\$0	\$9,125,000	\$0	\$0	\$2,965,000	\$50,000	\$0	\$400,000	\$0	\$50,000

2022 Bond Issue Project Costs	\$8,552,000
Cost of Issuance	\$153,000
Projected 2022 Bond Issue Total	\$8,705,000

<u>Annual Park Development Program</u>	<u>Projected 2017</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>
Beginning Cash Balance	\$ 20,316	\$ (12,573)	\$ -	\$ -	\$ -	\$ -
Transfers In						
General Obligation Bonds	\$ 250,000	\$ 450,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Park Dedication		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Memorial & Tribute Program	\$ 7,360					
Total Transfers In	\$ 257,360	\$ 500,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
Project Expenditures						
Memorial & Tribute Program	\$ 3,349					
Sunrise Park Splash Pad & Restrooms	\$ 28,255					
Crestbruck Park Splash Pad	\$ 210,767					
Crestbruck Park Swing Set Replacement	\$ 2,445					
Greentree Tennis Courts Reconstruction	\$ 45,434					
Deer Creek Park Development (Playground, Parking Lot, Trail Loop, Shelter & Basketball Court)		\$ 487,427				
Swings & Ball Diamond Installation at Otter Creek Park, Shelter at White Birch Park, Fishing Pier at Hawkeye Park			\$ 350,000			
Other Projects TBD (based on park dedication, development funding and pace of development)				\$ 350,000	\$ 350,000	\$ 350,000
Total Project Expenditures	\$ 290,250	\$ 487,427	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000
Remaining Cash Balance	<u>\$ (12,573)</u>	<u>\$ -</u>				

Annual Sidewalk/Trail Construction Program

	<u>Projected</u> <u>2017</u>	<u>Projected</u> <u>2018</u>	<u>Projected</u> <u>2019</u>	<u>Projected</u> <u>2020</u>	<u>Projected</u> <u>2021</u>	<u>Projected</u> <u>2022</u>
Beginning Cash Balance	\$ 299,883	\$ 164,688	\$ 114,688	\$ 114,688	\$ 114,688	\$ 114,688
Transfers In						
General Obligation Bonds	\$ 300,000	\$ 305,000	\$ 175,000	\$ 250,000	\$ 250,000	\$ 250,000
Transfer from Road Use Tax Fund	\$ 50,000	\$ 325,000	\$ 300,000	\$ 100,000	\$ 100,000	\$ 100,000
Total Transfers In	\$ 350,000	\$ 630,000	\$ 475,000	\$ 350,000	\$ 350,000	\$ 350,000
Project Expenditures						
Sidewalk Oversizing	\$ 50,000	\$ 150,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Sidewalk and Pedestrian Ramp Gaps	\$ 34,628	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
ADA Compliance	\$ 93,843	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
North Creek Park Recreational Trail Replacement	\$ 127,835					
W First Street 8' Sidewalk Upgrade - Phase 2 (Linden Street to College Avenue)	\$ 178,888					
W First Street 8' Sidewalk Upgrade - Phase 3 (State Street to NW Elementary)		\$ 155,000				
NE Frisk Drive Sidewalk Connection		\$ 75,000				
SE Delaware Avenue Sidewalk Connection		\$ 150,000				
W First Street 8' Sidewalk Upgrade - Phase 4 (NW Elementary to High Trestle Trail)			\$ 275,000			
SE Magazine Road 8' Sidewalk Upgrade - Phase 3 (Trilein Drive to Delaware Avenue)				\$ 150,000		
Sidewalk/Trail Construction (TBD)					\$ 150,000	\$ 150,000
Total Project Expenditures	\$ 485,195	\$ 680,000	\$ 475,000	\$ 350,000	\$ 350,000	\$ 350,000
Remaining Cash Balance	\$ 164,688	\$ 114,688				

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2017</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>
Beginning Cash Balance	\$ 2,949,304	\$ 2,838,463	\$ 2,063,463	\$ 1,995,463	\$ 1,888,463	\$ 1,653,463
Transfers In						
Transfer from Sewer Fund	\$ 400,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Total Transfers In	\$ 400,000	\$ 500,000				
Project Expenditures						
Sanitary Sewer Oversizing	\$ 30,120	\$ 50,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs & Slip Lining	\$ 158,924	\$ 215,000	\$ 175,000	\$ 175,000	\$ 205,000	\$ 205,000
Sanitary Sewer Abandonment	\$ 44,129					
SW Southlawn Area Utility Improvements	\$ 151,218					
SE Eastlawn Area Utility Improvements	\$ 39,156	\$ 410,000	\$ 363,000	\$ 360,000		
NW Northlawn Area Utility Improvements				\$ 42,000	\$ 500,000	\$ 485,000
Total Project Expenditures	\$ 423,546	\$ 675,000	\$ 568,000	\$ 607,000	\$ 735,000	\$ 720,000
Transfers Out - SE Sharon Drive Sanitary Sewer	\$ 87,294					
Transfers Out - SE Delaware Bank Stabilization		\$ 325,000				
Transfers Out - Sanitary Sewer Study and Master Plan		\$ 225,000				
Transfers Out - NW Irvinedale Drive Corridor Improvements		\$ 50,000				
Remaining Cash Balance	<u>\$ 2,838,463</u>	<u>\$ 2,063,463</u>	<u>\$ 1,995,463</u>	<u>\$ 1,888,463</u>	<u>\$ 1,653,463</u>	<u>\$ 1,433,463</u>

<u>Annual Storm Water Replacement Program</u>	<u>Projected 2017</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>
Beginning Cash Balance	\$ 728,864	\$ 783,294	\$ 213,294	\$ 213,294	\$ 213,294	\$ 213,294
<u>Transfers In</u>						
Transfer from Storm Water Fund	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Storm Sewer Extension Cost Share	\$ 194					
Total Transfers In	\$ 250,194	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
<u>Project Expenditures</u>						
Storm Water Detention Basin Management Projects	\$ 7,350	\$ 10,000				
Storm Water Conservation Design Features within City Property	\$ 10,000	\$ 10,000				
Wildflower Detention Basin Improvements - Design Concept	\$ 15,800					
SE Cortina Drive Area Improvements - Design Concept	\$ 24,689					
SW Ankeny Road Drainage Improvements - Design & Construct	\$ 24,756					
North Creek Area Erosion Repair - Design & Construct	\$ 23,080	\$ 25,000				
NE Delaware Ditch Repair - NE 5th Street to NE 9th Street - Design & Construct	\$ 25,000					
Tradition Trail Repair	\$ 59,820					
Oralabor Road Culvert Removal - Design & Construct		\$ 35,000				
Prairie Trail Bioswales Rehabilitation - Design & Construct		\$ 20,000				
North Prairie Bend Basin Repair - Design & Construct		\$ 40,000				
Magazine Road Storm Sewer Improvements - Design & Construct		\$ 35,000				
High Trestle Trail Clear & Grub & RCB Culvert Removal - Design & Construct		\$ 30,000				
SW 2nd Street & SW Flynn Drive Intersection Improvements - Design & Construct		\$ 65,000				
Storm Water Projects (TBD)			\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Total Project Expenditures	\$ 190,495	\$ 270,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Transfers Out - Northcreek Channel Improvements	\$ 5,269					
Transfers Out - SE Peterson Drive & SE Trilein Drive Storm Sewer Improvements		\$ 550,000				
Remaining Cash Balance	\$ 783,294	\$ 213,294	\$ 213,294	\$ 213,294	\$ 213,294	\$ 213,294

Annual Street Replacement Program

	<u>Projected</u> <u>2017</u>	<u>Projected</u> <u>2018</u>	<u>Projected</u> <u>2019</u>	<u>Projected</u> <u>2020</u>	<u>Projected</u> <u>2021</u>	<u>Projected</u> <u>2022</u>
Beginning Cash Balance	\$ 93,397	\$ 333,500	\$ 333,500	\$ 133,500	\$ 133,500	\$ 133,500
Transfers In						
General Obligation Bonds	\$ 300,000			\$ 150,000	\$ 150,000	\$ 300,000
Transfer from Road Use Tax Fund	\$ 450,000	\$ 300,000	\$ 425,000	\$ 475,000	\$ 600,000	\$ 300,000
Copy Charges	\$ 100					
Total Transfers In	\$ 750,100	\$ 300,000	\$ 425,000	\$ 625,000	\$ 750,000	\$ 600,000
Project Expenditures						
SE 3rd Street - SE Trilein Drive to SE Delaware Avenue (Phase 2)	\$ 509,997					
NW Prairie Ridge Drive - from just west of NW Ash Drive to 900 feet west		\$ 300,000				
NW 9th Street - NW Irvinedale Drive to NW Cedarwood Drive (Phase 1)			\$ 625,000			
SE 8th Street - South Ankeny Boulevard to SE Sharon Drive (Phase 1)				\$ 625,000		
SE 8th Street - South Ankeny Boulevard to SE Sharon Drive (Phase 2)					\$ 750,000	
NW 9th Street - NW Irvinedale Drive to NW Cedarwood Drive (Phase 2)						\$ 600,000
Total Project Expenditures	\$ 509,997	\$ 300,000	\$ 625,000	\$ 625,000	\$ 750,000	\$ 600,000
Remaining Cash Balance	\$ 333,500	\$ 333,500	\$ 133,500	\$ 133,500	\$ 133,500	\$ 133,500

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected</u> <u>2017</u>	<u>Projected</u> <u>2018</u>	<u>Projected</u> <u>2019</u>	<u>Projected</u> <u>2020</u>	<u>Projected</u> <u>2021</u>	<u>Projected</u> <u>2022</u>
Beginning Cash Balance	\$ 8,862	\$ 309,787	\$ 159,787	\$ 109,787	\$ 109,787	\$ 109,787
Transfers In						
General Obligation Bonds	\$ 250,000	\$ 290,000		\$ 350,000	\$ 350,000	\$ 350,000
Iowa Department of Transportation - USTEP	\$ 200,000	\$ 335,000				
Polk County - Cost Share		\$ 100,000				
Transfer from Road Use Tax Fund			\$ 500,000			
Total Transfers In	\$ 450,000	\$ 725,000	\$ 500,000	\$ 350,000	\$ 350,000	\$ 350,000
Project Expenditures						
SW State Street & SW White Birch Drive Signal	\$ 1,624					
NW Irvinedale Drive & NW 18th Street Temporary Signal	\$ 106,851					
West 1st Street & Highway 415 Signal	\$ 40,600	\$ 360,000				
NE Delaware Avenue & NE 18th Street Pedestrian Signal Modifications		\$ 50,000				
Fiber Optic Conduit Connection between New Library & Police Station		\$ 125,000				
Interstate 35 & SE Corporate Woods Drive SB Ramp Signal		\$ 290,000				
SW State Street & SW Prairie Trail Parkway Signal		\$ 50,000	\$ 550,000			
Traffic Signal Project (TBD)				\$ 350,000	\$ 350,000	\$ 350,000
Total Project Expenditures	\$ 149,075	\$ 875,000	\$ 550,000	\$ 350,000	\$ 350,000	\$ 350,000
Remaining Cash Balance	\$ 309,787	\$ 159,787	\$ 109,787	\$ 109,787	\$ 109,787	\$ 109,787

<u>Annual Water Main Extension/Replacement Program</u>	<u>Projected 2017</u>	<u>Projected 2018</u>	<u>Projected 2019</u>	<u>Projected 2020</u>	<u>Projected 2021</u>	<u>Projected 2022</u>
Beginning Cash Balance	\$ 738,748	\$ 967,007	\$ 567,007	\$ 634,007	\$ 522,007	\$ 237,007
<u>Transfers In</u>						
Transfer from Water Fund	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Total Transfers In	\$ 500,000					
<u>Project Expenditures</u>						
Water Main Oversizing	\$ 40,659	\$ 90,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000
SW Southlawn Area Utility Improvements	\$ 151,218					
SE Eastlawn Area Utility Improvements	\$ 39,155	\$ 410,000	\$ 363,000	\$ 360,000		
Solenoid Valve Removal	\$ 40,710					
SW 3rd Street (Maple to Scott) Water Main Improvements		\$ 400,000				
NW Northlawn Area Utility Improvements				\$ 42,000	\$ 500,000	\$ 485,000
SE 8th Street (Sharon to Ankeny Boulevard) Water Main Improvements				\$ 140,000	\$ 215,000	
Total Project Expenditures	\$ 271,741	\$ 900,000	\$ 433,000	\$ 612,000	\$ 785,000	\$ 555,000
Remaining Cash Balance	<u>\$ 967,007</u>	<u>\$ 567,007</u>	<u>\$ 634,007</u>	<u>\$ 522,007</u>	<u>\$ 237,007</u>	<u>\$ 182,007</u>

2018-2027 Capital Improvement Plan
Overall Project Listing with 10-Year Horizon Projects

Map I.D.	Proposed Projects Dec.11, 2017	Type	2018	2019	2020	2021	2022	High Priority Projects					Project Cost
								2023	2024	2025	2026	2027	
ANNUAL PROGRAMS													
1, A	Annual Park Development Program	Parks	\$500,000	\$350,000	\$350,000	\$350,000	\$350,000	\$500,000	\$550,000	\$600,000	\$600,000	\$600,000	\$4,750,000
2, 3, 4, B	Annual Sidewalk/Trail Construction Program	Sidewalks	\$680,000	\$475,000	\$350,000	\$350,000	\$350,000	\$400,000	\$400,000	\$300,000	\$350,000	\$400,000	\$4,055,000
5, C	Annual Sanitary Sewer Replacement Program	Sanitary	\$675,000	\$568,000	\$607,000	\$735,000	\$720,000	\$700,000	\$700,000	\$750,000	\$750,000	\$800,000	\$7,005,000
6	Annual Storm Water Replacement Program	Storm	\$270,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$300,000	\$300,000	\$350,000	\$350,000	\$2,820,000
5, 7, C	Annual PCC Street Patching Program	Streets	\$760,000	\$713,000	\$752,000	\$850,000	\$835,000	\$750,000	\$800,000	\$850,000	\$850,000	\$850,000	\$8,010,000
8, D	Annual Asphalt Street Resurfacing Program	Streets	\$209,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,809,000
9	Annual Pavement Preservation Program	Streets	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$250,000	\$250,000	\$250,000	\$2,150,000
10, E	Annual Street Replacement Program	Streets	\$300,000	\$625,000	\$625,000	\$750,000	\$600,000	\$600,000	\$650,000	\$650,000	\$700,000	\$700,000	\$6,200,000
11,12,13,14, F	Annual Traffic Signal Improvement Program	Traffic	\$875,000	\$550,000	\$350,000	\$350,000	\$350,000	\$400,000	\$400,000	\$500,000	\$500,000	\$500,000	\$4,775,000
5, 15, C	Annual Water Main Replacement Program	Water	\$900,000	\$433,000	\$612,000	\$785,000	\$555,000	\$600,000	\$600,000	\$700,000	\$700,000	\$700,000	\$6,585,000
BUILDINGS													
16	Fire Station No. 3	Buildings	\$4,000,000										\$4,000,000
17, G	Library and Former Library Renovation	Buildings	\$20,300,000	\$4,700,000									\$25,000,000
18, H	Senior Center	Buildings	\$315,000	\$3,775,000									\$4,090,000
19	Community Entrance Signs	Buildings	\$321,000	\$50,000	\$50,000	\$50,000	\$50,000						\$521,000
	Park Maintenance Facility Renovations	Buildings		\$77,000	\$622,000		\$622,000						\$1,321,000
	HVAC Replacement - City Hall	Buildings			\$500,000								\$500,000
	Fire Station No. 4	Buildings							\$400,000	\$500,000	\$5,000,000		\$5,900,000
	Wastewater Treatment Facilities Demolition	Buildings										\$800,000	\$800,000
BRIDGES													
20, I	NE Delaware Avenue Pedestrian Bridge and Trail Connection	Bridge	\$700,000	\$220,000									\$920,000
21	NE Four Mile Drive RCB Culvert for Deer Creek	Bridge	\$975,000										\$975,000
J	NE 54th Street Bridge Replacement and Trail Connection	Bridge	\$100,000	\$1,075,000									\$1,175,000
	NE 18th Street Improvements and I-35 Overpass Bridge	Bridge						\$900,000	\$6,100,000	\$2,500,000			\$9,500,000
	SW Oralabor Road and SW State Street Regional Trail Overpass	Bridge							\$100,000	\$1,500,000			\$1,600,000
	SW Oralabor Road and Ankeny Boulevard Regional Trail Overpass	Bridge								\$100,000	\$1,500,000		\$1,600,000
	Corporate Woods Drive Railroad Overpass	Bridge									\$750,000	\$8,500,000	\$9,250,000
PARKS													
22	Prairie Ridge Sports Complex - Field Lighting	Parks	\$190,000										\$190,000
23	Ankeny Market & Pavilion	Parks	\$97,000										\$97,000
K	Older Parks Renovation Plan	Parks	\$365,000	\$200,000	\$251,000								\$816,000
24	Hawkeye Park Sports Complex - Field Lighting	Parks	\$275,000										\$275,000
25	Prairie Ridge Sports Complex - Drainage Improvements	Parks	\$76,000		\$78,000								\$154,000
26	Otter Creek Golf Course Patio Addition	Parks	\$63,000										\$63,000
H	Hawkeye Park Tennis Courts Replacement	Parks		\$730,000									\$730,000
	Prairie Ridge Sports Complex - Tee Ball Field	Parks			\$154,000								\$154,000
	High Trestle Trail Trailhead and Parking Lot	Parks			\$130,000								\$130,000
	Miracle Park Concession Stand Access Road	Parks						\$60,000					\$60,000
	Chautauqua Park Development	Parks							\$3,000,000	\$3,000,000			\$6,000,000
	Watercrest Community Park Expansion	Parks										\$2,000,000	\$2,000,000
SANITARY SEWERS													
	Sanitary Sewer Study and Master Plan	Sanitary	\$225,000										\$225,000
27, L	Deer Creek Trunk Sewer	Sanitary	\$1,475,000	\$1,100,000									\$2,575,000
28	SE Delaware Bank Stabilization Project	Sanitary	\$325,000										\$325,000
	Otter Creek Trunk Sewer - Phase 3	Sanitary				\$260,000	\$1,240,000						\$1,500,000
	Otter Creek Trunk Sewer - Phase 4	Sanitary					\$150,000	\$675,000					\$825,000

2018-2027 Capital Improvement Plan
Overall Project Listing with 10-Year Horizon Projects

Map I.D.	Proposed Projects Dec.11, 2017	Type	2018	2019	2020	2021	2022	High Priority Projects					Project Cost
								2023	2024	2025	2026	2027	
SIDEWALKS/TRAILS													
M	High Trestle Trail Extension - SW Ordinance Road to SE Oralabor Road	Sidewalks	\$120,000	\$1,260,000	\$120,000	\$1,260,000							\$2,760,000
STORM WATER													
29	SE Peterson Drive & SE Trilein Drive Storm Sewer Improvements	Storm	\$550,000										\$550,000
N	Wildflower Detention Basins Improvements	Storm		\$340,000									\$340,000
	Saylor Creek Tributary Channel Improvements	Storm			\$150,000	\$650,000							\$800,000
STREETS													
30, O	SE Creekview Drive Drainage and Paving and Improvements	Streets	\$950,000	\$825,000									\$1,775,000
31	NW Irvinedale Drive & NW 5th Street Intersection Improvements	Streets	\$2,900,000										\$2,900,000
32	Ankeny Boulevard and 1st Street Intersection Improvements	Traffic	\$850,000										\$850,000
33	SE Convenience Boulevard Extension	Streets	\$1,144,000										\$1,144,000
P	South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Parkway Intersection Improvements	Streets	\$275,000	\$3,100,000									\$3,375,000
	South Ankeny Boulevard and SW Oralabor Road Safety Studies	Streets	\$40,000	\$45,000									\$85,000
Q	SE Hulsizer Road Realignment	Streets		\$325,000	\$2,125,000								\$2,450,000
R	East 1st Street and I-35 Interchange Reconstruction	Streets	\$65,000	\$1,419,666	\$1,066,666	\$666,667							\$3,217,999
S	West 1st Street Widening & Improvements - Phase 1	Streets	\$100,000	\$600,000	\$2,900,000	\$2,900,000							\$6,500,000
	North Ankeny Boulevard Landscaping Improvements	Streets			\$470,000	\$370,000							\$840,000
	NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	Streets			\$400,000	\$3,550,000							\$3,950,000
	NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	Streets			\$100,000	\$300,000	\$4,675,000	\$4,675,000					\$9,750,000
	Prairie Ridge Sports Complex Parking Lot Access	Streets				\$20,000	\$100,000	\$300,000	\$300,000				\$720,000
	SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	Streets					\$210,000	\$2,300,000					\$2,510,000
	NW 36th Street and NW Ash Drive Interim Improvements	Streets					\$25,000	\$475,000					\$500,000
	SW Oralabor Road and DMACC Boulevard Intersection Improvements	Streets					\$100,000	\$800,000					\$900,000
	NW 18th Street Extension - NW Abbie Drive to Iowa Highway 415	Streets					\$460,000	\$4,900,000					\$5,360,000
	NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	Streets					\$25,000	\$300,000	\$3,000,000				\$3,325,000
	West 1st Street Widening & Improvements - Phase 2	Streets						\$500,000	\$2,000,000	\$3,000,000			\$5,500,000
	NW State Street Extension to NW Irvinedale Drive	Streets						\$750,000	\$5,000,000	\$5,000,000			\$10,750,000
	NE Delaware Avenue Reconstruction - NE 18th Street to NE 36th Street	Streets							\$500,000	\$3,500,000	\$4,000,000		\$8,000,000
	NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	Streets								\$250,000	\$5,000,000		\$5,250,000
	East 1st Street Widening - NE Frisk Drive to NE Four Mile Drive	Streets									\$750,000	\$6,000,000	\$6,750,000
	NW 36th Street Reconstruction - NW Irvinedale Drive to NW Weigel Drive	Streets									\$500,000	\$7,000,000	\$7,500,000
WATER													
34	Ash Tower Transmission Main	Water	\$2,100,000										\$2,100,000
35	NW Booster Station	Water	\$2,822,000										\$2,822,000
36	Ash Water Tower Repair and Repaint	Water	\$180,000										\$180,000
37	Concept & Site Study for Future NW Water Tower	Water	\$375,000				\$250,000						\$625,000
	Trestle Ridge Estates 24" Water Main	Water	\$130,000										\$130,000
T	SE Magazine Road Water Main Improvements	Water		\$930,000									\$930,000
U	SW Irvinedale Drive Transmission Main - Phase 1	Water	\$225,000	\$3,000,000									\$3,225,000
V	NW State Street Water Main Improvements	Water		\$90,000									\$90,000
	SW Irvinedale Drive Transmission Main - Phase 2	Water		\$250,000	\$3,450,000								\$3,700,000
	NW Irvinedale Drive Transmission Main - Phase 3	Water			\$140,000	\$1,995,000							\$2,135,000
	Purchase Remaining Capacity in Saylorville Feeder Main	Water				\$800,000							\$800,000
	NW Tower Transmission Main	Water				\$150,000	\$1,950,000						\$2,100,000
	High Trestle Trail Transmission Main	Water				\$200,000	\$2,925,000						\$3,125,000
	Aquifer Storage and Recovery #1 Replacement	Water				\$250,000	\$3,750,000						\$4,000,000
	South Ankeny Boulevard Transmission Main	Water				\$250,000	\$2,750,000						\$3,000,000
	NW State Street Distribution Main - NW 18th Street to NW 22nd Street	Water					\$50,000	\$350,000					\$400,000
	NW State Street Distribution Main - NW 1st Street to NW 9th Street	Water					\$80,000	\$770,000					\$850,000
	South Ankeny Boulevard Transmission Main - High Trestle Trail to SE 3rd Street	Water							\$140,000	\$1,310,000			\$1,450,000
	Irvinedale Water Tower - Inspection and Repairs	Water										\$300,000	\$300,000

2018-2027 Capital Improvement Plan
Overall Project Listing with 10-Year Horizon Projects

Map I.D.	Proposed Projects Dec.11, 2017	Type	2018	2019	2020	2021	2022	High Priority Projects					Project Cost
								2023	2024	2025	2026	2027	
	<i>PRAIRIE TRAIL</i>												
	The District at Prairie Trail - SW Market Street	Prairie Trail	\$1,240,000										\$1,240,000
	SW Plaza Parkway and SW College Avenue Extension	Prairie Trail	\$2,460,000										\$2,460,000
	SW Prairie Trail Parkway Sidewalk Improvements	Prairie Trail	\$125,000										\$125,000
	SW State Street & SW Magazine Road Intersection Improvements	Prairie Trail	\$650,000										\$650,000
	SW Des Moines Street Trunk Sewer - SW Magazine Road to SW Elm Street	Prairie Trail	\$414,000										\$414,000
	SW Des Moines Street - SW Prairie Trail Parkway to SW Magazine Road	Prairie Trail	\$390,000	\$4,910,000									\$5,300,000
	SW State Street Median Study	Prairie Trail		\$25,000									\$25,000
	SW Des Moines Street Extension - SW Magazine Road to SW 11th Street	Prairie Trail						\$400,000	\$4,000,000				\$4,400,000
	SW Des Moines Street Extension - SW 11th Street to SW Elm Street	Prairie Trail								\$400,000	\$4,000,000		\$4,400,000
	Year Totals		\$53,276,000	\$33,360,666	\$16,952,666	\$18,191,667	\$21,142,000	\$24,515,000	\$30,320,000	\$24,990,000	\$28,060,000	\$29,950,000	\$280,757,999

Section 2

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

EXHIBIT 1

Projected Debt Service Levy Impact	
Tax Impact for FY 18-19:	(\$0.40)
Tax Impact for FY 19-20:	
Tax Impact for FY 20-21:	(\$0.15)
Tax Impact for FY 21-22:	(\$0.10)

Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/TIF Abatement	Misc Income	Property Tax Backfill	Total Resources	PROJECTED GENERAL OBLIGATION DEBT										Total Uses	Surplus/ (Deficit)	Ending Fund Balance
									Par Proceeds Existing GO Debt	2018 CIP-Taxes	2019 CIP-Taxes	2020 CIP-Taxes	2021 CIP-Taxes	2022 CIP-Taxes	Estimated Future GO Bonds	Bond Fees	Other Uses				
2011 - 2012	2,194,249,206	4.4%	7,677,678	\$3.4990	5,706,470			13,384,148	13,705,574	\$13,755,000	\$12,590,000	\$7,840,000	\$9,415,000	\$8,705,000			5,700	9,906	13,721,180	(337,032)	2,214,278
2012 - 2013	2,234,955,340	1.9%	9,722,055	\$4.3500	5,992,207			15,714,262	15,233,103	\$13,556,461	\$12,404,265	\$7,707,666	\$9,251,667	\$8,552,000			5,750	(8,332)	15,230,521	483,741	2,698,019
2013 - 2014	2,322,513,506	3.9%	10,102,933	\$4.3500	7,463,673	10,106		17,576,712	16,600,983								6,500	18,227	16,625,710	951,002	3,649,020
2014 - 2015	2,441,629,335	5.1%	10,499,005	\$4.3000	7,579,227	10,973	172,081	18,261,286	18,292,763								6,500	4,276	18,303,539	(42,254)	3,606,767
2015 - 2016	2,611,859,821	7.0%	11,100,404	\$4.2500	8,646,720	11,509	370,494	20,129,128	20,807,512								6,750	(6,982)	20,807,280	(678,153)	2,928,614
2016 - 2017	2,897,767,321	10.9%	12,315,511	\$4.2500	8,945,811	10,898	372,182	21,644,402	21,641,816								7,000	(4,299)	21,644,516	(114)	2,928,500
2017 - 2018	3,117,104,836	7.6%	12,935,985	\$4.1500	9,021,835	20,000	373,400	22,351,220	23,123,605								7,000		23,130,605	(779,384)	2,149,116
2018 - 2019	3,531,530,661	13.3%	13,243,240	\$3.7500	7,345,501	20,000	370,859	20,979,600	18,043,893	3,302,010							7,000		21,352,902	(373,302)	1,775,813
2019 - 2020	3,727,928,187	5.6%	13,979,731	\$3.7500	7,284,455	20,000	359,733	21,643,919	15,183,213	2,791,488	3,693,063						7,000		21,674,763	(30,844)	1,744,970
2020 - 2021	3,801,395,009	2.0%	13,685,022	\$3.6000	7,257,708	20,000	348,941	21,311,672	15,163,339	1,832,613	1,536,781	2,814,758					7,000		21,354,490	(42,819)	1,702,151
2021 - 2022	4,001,215,814	5.3%	14,004,255	\$3.5000	6,635,476	20,000	338,473	20,998,204	12,967,301	1,186,363	1,235,781	1,781,763	3,859,329				7,000		21,037,537	(39,333)	1,662,818
2022 - 2023	3,973,504,065	(0.7%)	13,907,264	\$3.5000	6,612,249	20,000	328,319	20,867,832	12,956,814	1,182,238	1,234,981	915,888	2,211,431	2,397,536			7,000		20,905,887	(38,055)	1,624,763
2023 - 2024	4,024,074,108	1.3%	14,084,259	\$3.5000	6,502,461	20,000	318,469	20,925,190	13,081,839	1,181,988	1,237,781	834,013	909,131	1,585,231	2,126,098		7,000		20,963,081	(37,891)	1,586,872
2024 - 2025	3,935,526,614	(2.2%)	13,774,343	\$3.5000	5,122,570	20,000	308,915	19,225,828	11,442,834	1,185,425	1,238,981	459,263	856,506	1,170,381	2,902,265		7,000		19,262,655	(36,827)	1,550,045
2025 - 2026	3,996,190,544	1.5%	13,986,667	\$3.5000	4,712,559	20,000	299,648	19,018,873	10,787,610	1,182,363	1,238,581	459,175	859,781	1,322,394	3,202,741		7,000		19,059,645	(40,772)	1,509,273

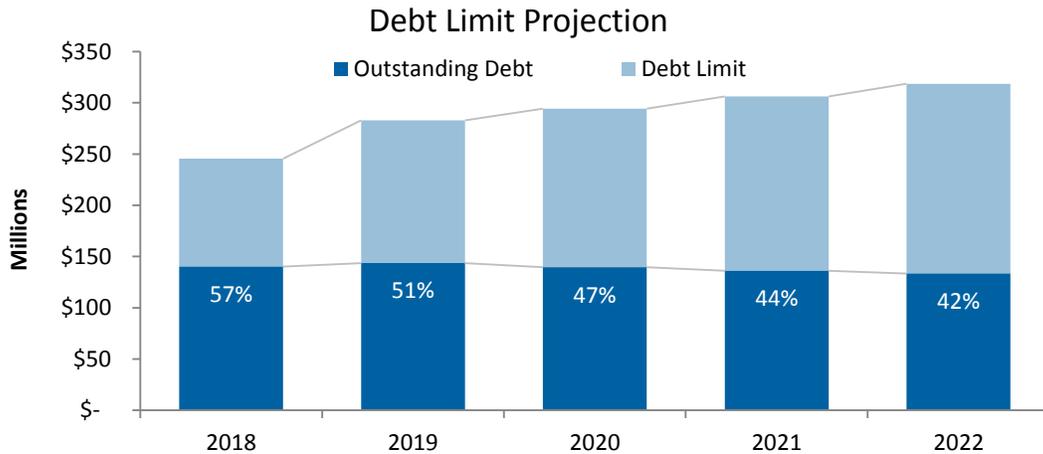
Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

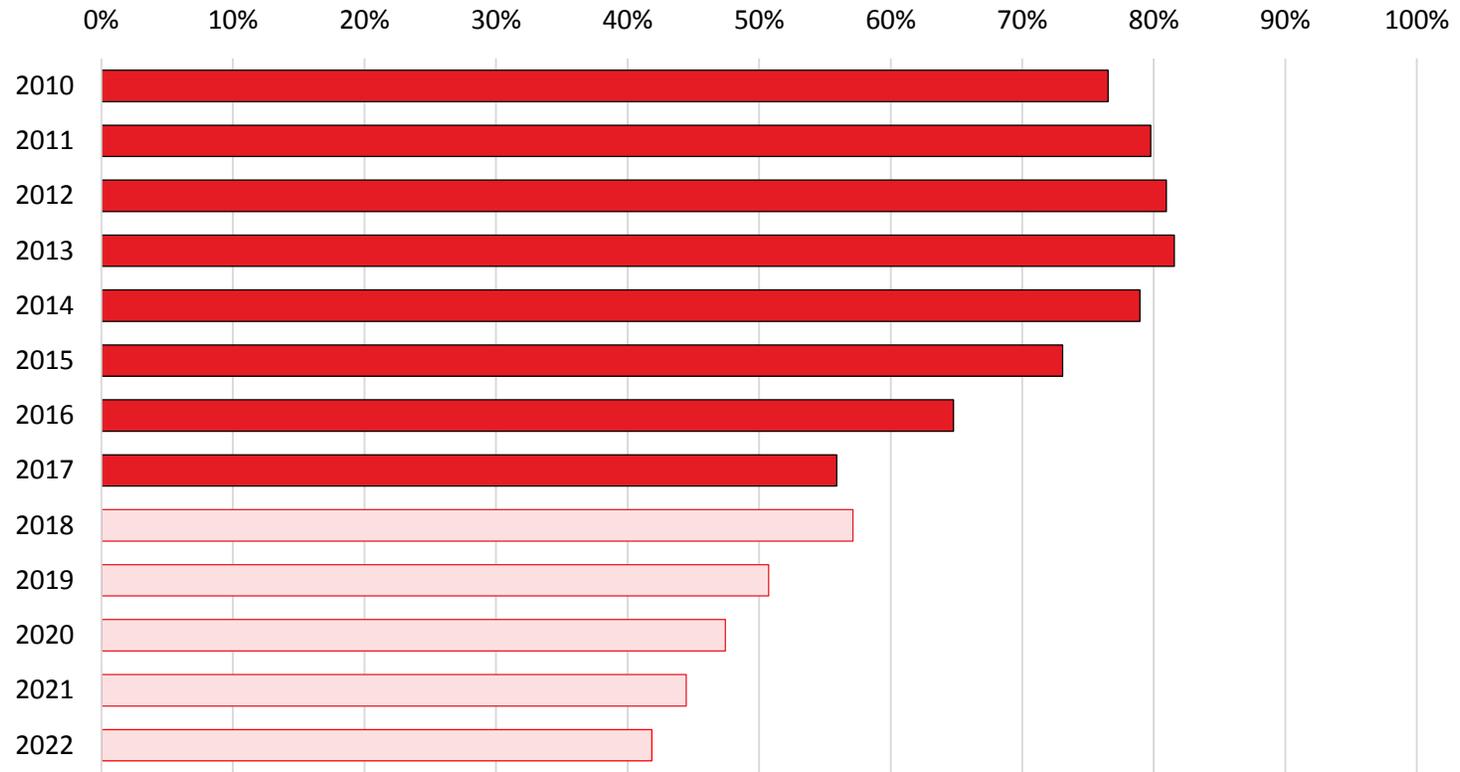
Outstanding Debt		
Issue Date	Maturity Date	Outstanding Debt
04/08/09	06/01/28	\$ 1,937,000
05/15/10	06/01/21	2,505,000
05/15/11	06/01/26	6,555,000
05/30/12	06/01/27	8,075,000
05/30/12	06/01/18	1,435,000
05/30/13	06/01/28	14,760,000
05/30/13	06/01/28	10,450,000
05/29/14	06/01/29	12,540,000
05/29/14	06/01/29	9,775,000
12/22/14	06/01/28	18,830,000
05/28/15	06/01/25	5,595,000
05/28/15	06/01/24	230,000
03/31/16	06/01/28	13,090,000
05/25/16	06/01/26	10,170,000
05/31/17	06/01/27	11,675,000
Rebate & Lease Agreements		11,536,369
Total Outstanding Debt		\$ 139,158,369

Projected Debt					
Bond Year	Debt Addition	Debt Reduction	Change in Rebates	Net Change	Projected Outstanding Debt
2018	\$ 19,640,000	\$ 18,516,000	\$ -	\$ 1,124,000	\$ 140,282,369
2019	18,735,000	14,226,000	(1,260,346)	3,248,654	143,531,023
2020	9,340,000	11,946,000	(1,348,857)	(3,954,857)	139,576,166
2021	10,080,000	12,310,000	(1,249,056)	(3,479,056)	136,097,110
2022	8,705,000	10,545,000	(896,866)	(2,736,866)	133,360,244

Calculation of Legal Debt Limit					
FY	Assessed Value	Debt Limit Value (5%)	Projected Outstanding Debt	Unused Debt Limit	% of Debt Limit Used
2018	\$ 4,911,602,753	\$ 245,580,138	\$ 140,282,369	\$105,297,769	57%
2019	5,659,720,457	282,986,023	143,531,023	139,455,000	51%
2020	5,886,273,543	294,313,677	139,576,166	154,737,511	47%
2021	6,123,952,552	306,197,628	136,097,110	170,100,518	44%
2022	6,373,312,770	318,665,639	133,360,244	185,305,395	42%



Historical and Projected Debt Limit



Section 3

City of Ankeny, Iowa
2018 - 2022 Capital Improvement Program
2018 thru **2022**

CATEGORY SUMMARY

Category	2018	2019	2020	2021	2022	Total
Bridge/Box Culvert	1,775,000	1,295,000				3,070,000
Corridor Development	5,279,000	4,935,000				10,214,000
Municipal Buildings	24,936,000	8,602,000	1,172,000	50,000	672,000	35,432,000
Park Facilities	1,566,000	1,280,000	963,000	350,000	350,000	4,509,000
Sanitary Sewers	2,700,000	1,668,000	607,000	995,000	2,110,000	8,080,000
Sidewalks/Trails	800,000	1,735,000	470,000	1,610,000	350,000	4,965,000
Storm Water	820,000	590,000	400,000	900,000	250,000	2,960,000
Streets and Alleys	7,793,000	8,002,666	8,788,666	9,756,667	7,380,000	41,720,999
Traffic Control	875,000	550,000	350,000	350,000	350,000	2,475,000
Water Mains	6,177,000	4,703,000	4,202,000	3,930,000	5,680,000	24,692,000
Water Towers/Storage	555,000			250,000	4,000,000	4,805,000
TOTAL	53,276,000	33,360,666	16,952,666	18,191,667	21,142,000	142,922,999

City of Ankeny, Iowa
 2018 - 2022 Capital Improvement Program
 2018 thru 2022

PROJECTS BY CATEGORY

Category	Project #	2018	2019	2020	2021	2022	Total
Bridge/Box Culvert							
NE Delaware Avenue Pedestrian Bridge and Sidewalk	BRG-14-002	700,000	220,000				920,000
NE 54th Street Bridge Replacement and Trail	BRG-15-001	100,000	1,075,000				1,175,000
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	975,000					975,000
Bridge/Box Culvert Total		1,775,000	1,295,000				3,070,000
Corridor Development							
SW Plaza Parkway and SW College Avenue Extension	COR-15-001	2,460,000					2,460,000
SW Des Moines Street Trunk Sewer-Magazine to Elm	COR-16-003	414,000					414,000
SW Des Moines Street-Prairie Trail to Magazine	COR-16-004	390,000	4,910,000				5,300,000
The District at Prairie Trail-SW Market Street	COR-17-002	1,240,000					1,240,000
SW Prairie Trail Parkway Sidewalk Improvements	COR-17-003	125,000					125,000
SW State Street and SW Magazine Road Intersection	COR-18-001	650,000					650,000
SW State Street Median Study	COR-18-002		25,000				25,000
Corridor Development Total		5,279,000	4,935,000				10,214,000
Municipal Buildings							
Fire Station No. 3	BLD-15-001	4,000,000					4,000,000
Library and Former Library Renovation	BLD-16-001	20,300,000	4,700,000				25,000,000
Park Maintenance Facility Renovation	BLD-18-001		77,000	622,000		622,000	1,321,000
Community Entrance Signs	BLD-18-002	321,000	50,000	50,000	50,000	50,000	521,000
Senior Center	BLD-18-003	315,000	3,775,000				4,090,000
HVAC Replacement-City Hall	BLD-18-004			500,000			500,000
Municipal Buildings Total		24,936,000	8,602,000	1,172,000	50,000	672,000	35,432,000
Park Facilities							
Annual Park Development Program	PRK-00-002	500,000	350,000	350,000	350,000	350,000	1,900,000
Prairie Ridge Sports Complex-Field Lighting	PRK-09-001	190,000					190,000
Ankeny Market & Pavilion	PRK-13-001	97,000					97,000
Hawkeye Park Sports Complex-Field Lighting	PRK-13-002	275,000					275,000
Prairie Ridge Sports Complex-Drainage Improvements	PRK-14-002	76,000		78,000			154,000
Prairie Ridge Sports Complex-Tee Ball Field	PRK-17-001			154,000			154,000
Older Parks Renovation Plan	PRK-17-003	365,000	200,000	251,000			816,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001			130,000			130,000
Otter Creek Golf Course Patio Addition	PRK-18-002	63,000					63,000
Hawkeye Park Tennis Courts Replacement	PRK-18-003		730,000				730,000
Park Facilities Total		1,566,000	1,280,000	963,000	350,000	350,000	4,509,000
Sanitary Sewers							
Annual Sanitary Sewer Replacement Program	SNS-00-001	675,000	568,000	607,000	735,000	720,000	3,305,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001				260,000	1,240,000	1,500,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001					150,000	150,000
Deer Creek Trunk Sewer	SNS-17-001	1,475,000	1,100,000				2,575,000

Category	Project #	2018	2019	2020	2021	2022	Total
SE Delaware Bank Stabilization	SNS-18-001	325,000					325,000
Sanitary Sewer Study and Master Plan	SNS-18-002	225,000					225,000
Sanitary Sewers Total		2,700,000	1,668,000	607,000	995,000	2,110,000	8,080,000
Sidewalks/Trails							
Annual Sidewalk/Trail Construction Program	SDW-00-001	680,000	475,000	350,000	350,000	350,000	2,205,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001	120,000	1,260,000	120,000	1,260,000		2,760,000
Sidewalks/Trails Total		800,000	1,735,000	470,000	1,610,000	350,000	4,965,000
Storm Water							
Annual Storm Water Replacement Program	STM-00-001	270,000	250,000	250,000	250,000	250,000	1,270,000
Saylor Creek Tributary Channel Improvements	STM-17-001			150,000	650,000		800,000
SE Peterson Drive & SE Trilein Drive Storm Sewer	STM-18-001	550,000					550,000
Wildflower Detention Basin Improvements	STM-18-002		340,000				340,000
Storm Water Total		820,000	590,000	400,000	900,000	250,000	2,960,000
Streets and Alleys							
Annual PCC Street Patching Program	STR-00-001	760,000	713,000	752,000	850,000	835,000	3,910,000
Annual Asphalt Street Resurfacing Program	STR-00-002	209,000	150,000	150,000	150,000	150,000	809,000
Annual Pavement Preservation Program	STR-00-003	200,000	200,000	200,000	200,000	200,000	1,000,000
Annual Street Replacement Program	STR-00-004	300,000	625,000	625,000	750,000	600,000	2,900,000
SE Creekview Drive Drainage and Paving Improvement	STR-05-003	950,000	825,000				1,775,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	65,000	1,419,666	1,066,666	666,667		3,217,999
NW Irvinedale Drive & NW 5th Street Intersection	STR-14-005	2,900,000					2,900,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006			100,000	300,000	4,675,000	5,075,000
Ankeny Boulevard and 1st Street Intersection	STR-15-001	850,000					850,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001	275,000	3,100,000				3,375,000
NW 18th Street Extension-Weigel to Abbie	STR-16-002			400,000	3,550,000		3,950,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003					210,000	210,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	100,000	600,000	2,900,000	2,900,000		6,500,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001			470,000	370,000		840,000
NW 36th St and NW Ash Dr Interim Improvements	STR-18-002					25,000	25,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003					25,000	25,000
NW 18th Street Extension-Abbie to Highway 415	STR-18-004					460,000	460,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005				20,000	100,000	120,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	STR-18-006	40,000	45,000				85,000
SE Hulsizer Road Realignment	STR-18-007		325,000	2,125,000			2,450,000
SW Oralabor Road and DMACC Intersection	STR-18-008					100,000	100,000
SE Convenience Boulevard Extension	STR-18-009	1,144,000					1,144,000
Streets and Alleys Total		7,793,000	8,002,666	8,788,666	9,756,667	7,380,000	41,720,999
Traffic Control							
Annual Traffic Signal Improvement Program	TRF-00-001	875,000	550,000	350,000	350,000	350,000	2,475,000
Traffic Control Total		875,000	550,000	350,000	350,000	350,000	2,475,000
Water Mains							
Annual Water Main Replacement Program	WTM-00-001	900,000	433,000	612,000	785,000	555,000	3,285,000
Ash Tower Transmission Main	WTM-15-002	2,100,000					2,100,000
NW Booster Station	WTM-15-003	2,822,000					2,822,000
High Trestle Trail Transmission Main	WTM-17-001				200,000	2,925,000	3,125,000
SE Magazine Road Water Main Improvements	WTM-17-003		930,000				930,000
SW Irvinedale Drive Transmission Main-Phase 1	WTM-17-004	225,000	3,000,000				3,225,000
NW State Street Water Main Improvements	WTM-17-005		90,000				90,000

Category	Project #	2018	2019	2020	2021	2022	Total
SW Irvinedale Drive Transmission Main-Phase 2	WTM-17-006		250,000	3,450,000			3,700,000
SW Irvinedale Drive Transmission Main-Phase 3	WTM-17-007			140,000	1,995,000		2,135,000
Purchase Capacity in Saylorville Feeder Main	WTM-17-008				800,000		800,000
NW Tower Transmission Main	WTM-17-009				150,000	1,950,000	2,100,000
South Ankeny Boulevard Transmission Main	WTM-18-001					250,000	250,000
Trestle Ridge Estates 24" Water Main	WTM-18-002		130,000				130,000
Water Mains Total		6,177,000	4,703,000	4,202,000	3,930,000	5,680,000	24,692,000
Water Towers/Storage							
Ash Water Tower Repair and Repaint	WTT-17-001	180,000					180,000
Aquifer Storage and Recovery #1 Replacement	WTT-17-002				250,000	3,750,000	4,000,000
Concept & Site Study for Future NW Water Tower	WTT-18-001	375,000				250,000	625,000
Water Towers/Storage Total		555,000			250,000	4,000,000	4,805,000
GRAND TOTAL		53,276,000	33,360,666	16,952,666	18,191,667	21,142,000	142,922,999

City of Ankeny, Iowa
2018 - 2022 Capital Improvement Program
2018 thru 2022

PROJECTS BY YEAR

Project Name	Department	Project #	Project Cost
2018			
Fire Station No. 3	Fire	BLD-15-001	4,000,000
Library and Former Library Renovation	Administration	BLD-16-001	20,300,000
Community Entrance Signs	Administration	BLD-18-002	321,000
Senior Center	Administration	BLD-18-003	315,000
NE Delaware Avenue Pedestrian Bridge and Sidewalk	Public Works	BRG-14-002	700,000
NE 54th Street Bridge Replacement and Trail	Public Works	BRG-15-001	100,000
NE Four Mile Drive RCB Culvert for Deer Creek	Public Works	BRG-17-001	975,000
SW Plaza Parkway and SW College Avenue Extension	Prairie Trail Development	COR-15-001	2,460,000
SW Des Moines Street Trunk Sewer-Magazine to Elm	Prairie Trail Development	COR-16-003	414,000
SW Des Moines Street-Prairie Trail to Magazine	Prairie Trail Development	COR-16-004	390,000
The District at Prairie Trail-SW Market Street	Prairie Trail Development	COR-17-002	1,240,000
SW Prairie Trail Parkway Sidewalk Improvements	Prairie Trail Development	COR-17-003	125,000
SW State Street and SW Magazine Road Intersection	Public Works	COR-18-001	650,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	500,000
Prairie Ridge Sports Complex-Field Lighting	Parks and Recreation	PRK-09-001	190,000
Ankeny Market & Pavilion	Parks and Recreation	PRK-13-001	97,000
Hawkeye Park Sports Complex-Field Lighting	Parks and Recreation	PRK-13-002	275,000
Prairie Ridge Sports Complex-Drainage Improvements	Parks and Recreation	PRK-14-002	76,000
Older Parks Renovation Plan	Parks and Recreation	PRK-17-003	365,000
Otter Creek Golf Course Patio Addition	Parks and Recreation	PRK-18-002	63,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	680,000
High Trestle Trail Extension-Ordnance to Oralabor	Parks and Recreation	SDW-16-001	120,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	675,000
Deer Creek Trunk Sewer	Sewer Utility	SNS-17-001	1,475,000
SE Delaware Bank Stabilization	Sewer Utility	SNS-18-001	325,000
Sanitary Sewer Study and Master Plan	Sewer Utility	SNS-18-002	225,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	270,000
SE Peterson Drive & SE Trilein Drive Storm Sewer	Storm Water Utility	STM-18-001	550,000
Annual PCC Street Patching Program	Public Works	STR-00-001	760,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	209,000
Annual Pavement Preservation Program	Public Works	STR-00-003	200,000
Annual Street Replacement Program	Public Works	STR-00-004	300,000
SE Creekview Drive Drainage and Paving Improvement	Public Works	STR-05-003	950,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	65,000
NW Irvindale Drive & NW 5th Steet Intersection	Public Works	STR-14-005	2,900,000
Ankeny Boulevard and 1st Street Intersection	Public Works	STR-15-001	850,000
S Ankeny Blvd and SE Shurfine Dr Intersection	Public Works	STR-16-001	275,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	100,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	Public Works	STR-18-006	40,000
SE Convenience Boulevard Extension	Public Works	STR-18-009	1,144,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	875,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	900,000
Ash Tower Transmission Main	Water Utility	WTM-15-002	2,100,000
NW Booster Station	Water Utility	WTM-15-003	2,822,000

Project Name	Department	Project #	Project Cost
SW Irvinedale Drive Transmission Main-Phase 1	Water Utility	WTM-17-004	225,000
Trestle Ridge Estates 24" Water Main	Water Utility	WTM-18-002	130,000
Ash Water Tower Repair and Repaint	Water Utility	WTT-17-001	180,000
Concept & Site Study for Future NW Water Tower	Water Utility	WTT-18-001	375,000
Total for 2018			53,276,000

2019

Library and Former Library Renovation	Administration	BLD-16-001	4,700,000
Park Maintenance Facility Renovation	Administration	BLD-18-001	77,000
Community Entrance Signs	Administration	BLD-18-002	50,000
Senior Center	Administration	BLD-18-003	3,775,000
NE Delaware Avenue Pedestrian Bridge and Sidewalk	Public Works	BRG-14-002	220,000
NE 54th Street Bridge Replacement and Trail	Public Works	BRG-15-001	1,075,000
SW Des Moines Street-Prairie Trail to Magazine	Prairie Trail Development	COR-16-004	4,910,000
SW State Street Median Study	Public Works	COR-18-002	25,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Older Parks Renovation Plan	Parks and Recreation	PRK-17-003	200,000
Hawkeye Park Tennis Courts Replacement	Parks and Recreation	PRK-18-003	730,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	475,000
High Trestle Trail Extension-Ordinance to Oralabor	Parks and Recreation	SDW-16-001	1,260,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	568,000
Deer Creek Trunk Sewer	Sewer Utility	SNS-17-001	1,100,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Wildflower Detention Basin Improvements	Storm Water Utility	STM-18-002	340,000
Annual PCC Street Patching Program	Public Works	STR-00-001	713,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	200,000
Annual Street Replacement Program	Public Works	STR-00-004	625,000
SE Creekview Drive Drainage and Paving Improvement	Public Works	STR-05-003	825,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	1,419,666
S Ankeny Blvd and SE Shurfine Dr Intersection	Public Works	STR-16-001	3,100,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	600,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	Public Works	STR-18-006	45,000
SE Hulsizer Road Realignment	Public Works	STR-18-007	325,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	550,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	433,000
SE Magazine Road Water Main Improvements	Water Utility	WTM-17-003	930,000
SW Irvinedale Drive Transmission Main-Phase 1	Water Utility	WTM-17-004	3,000,000
NW State Street Water Main Improvements	Water Utility	WTM-17-005	90,000
SW Irvinedale Drive Transmission Main-Phase 2	Water Utility	WTM-17-006	250,000
Total for 2019			33,360,666

2020

Park Maintenance Facility Renovation	Administration	BLD-18-001	622,000
Community Entrance Signs	Administration	BLD-18-002	50,000
HVAC Replacement-City Hall	Administration	BLD-18-004	500,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Prairie Ridge Sports Complex-Drainage Improvements	Parks and Recreation	PRK-14-002	78,000
Prairie Ridge Sports Complex-Tee Ball Field	Parks and Recreation	PRK-17-001	154,000
Older Parks Renovation Plan	Parks and Recreation	PRK-17-003	251,000
High Trestle Trail Trailhead and Parking Lot	Parks and Recreation	PRK-18-001	130,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
High Trestle Trail Extension-Ordinance to Oralabor	Parks and Recreation	SDW-16-001	120,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	607,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000

Project Name	Department	Project #	Project Cost
Saylor Creek Tributary Channel Improvements	Storm Water Utility	STM-17-001	150,000
Annual PCC Street Patching Program	Public Works	STR-00-001	752,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	200,000
Annual Street Replacement Program	Public Works	STR-00-004	625,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	1,066,666
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	100,000
NW 18th Street Extension-Weigel to Abbie	Public Works	STR-16-002	400,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	2,900,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	470,000
SE Hulsizer Road Realignment	Public Works	STR-18-007	2,125,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	350,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	612,000
SW Irvinedale Drive Transmission Main-Phase 2	Water Utility	WTM-17-006	3,450,000
SW Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	140,000
Total for 2020			16,952,666

2021

Community Entrance Signs	Administration	BLD-18-002	50,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
High Trestle Trail Extension-Ordnance to Oralabor	Parks and Recreation	SDW-16-001	1,260,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	735,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	260,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Saylor Creek Tributary Channel Improvements	Storm Water Utility	STM-17-001	650,000
Annual PCC Street Patching Program	Public Works	STR-00-001	850,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	200,000
Annual Street Replacement Program	Public Works	STR-00-004	750,000
E 1st Street and I-35 Interchange Reconstruction	Public Works	STR-11-004	666,667
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	300,000
NW 18th Street Extension-Weigel to Abbie	Public Works	STR-16-002	3,550,000
West 1st Street Widening and Improvements-Phase 1	Public Works	STR-16-004	2,900,000
North Ankeny Boulevard Landscaping Improvements	Public Works	STR-18-001	370,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	20,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	350,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	785,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	200,000
SW Irvinedale Drive Transmission Main-Phase 3	Water Utility	WTM-17-007	1,995,000
Purchase Capacity in Saylorville Feeder Main	Water Utility	WTM-17-008	800,000
NW Tower Transmission Main	Water Utility	WTM-17-009	150,000
Aquifer Storage and Recovery #1 Replacement	Water Utility	WTT-17-002	250,000
Total for 2021			18,191,667

2022

Park Maintenance Facility Renovation	Administration	BLD-18-001	622,000
Community Entrance Signs	Administration	BLD-18-002	50,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	350,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	350,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	720,000
Otter Creek Trunk Sewer-Phase 3	Sewer Utility	SNS-11-001	1,240,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	150,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	250,000
Annual PCC Street Patching Program	Public Works	STR-00-001	835,000

Project Name	Department	Project #	Project Cost
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	150,000
Annual Pavement Preservation Program	Public Works	STR-00-003	200,000
Annual Street Replacement Program	Public Works	STR-00-004	600,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	4,675,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	210,000
NW 36th St and NW Ash Dr Interim Improvements	Public Works	STR-18-002	25,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	25,000
NW 18th Street Extension-Abbie to Highway 415	Public Works	STR-18-004	460,000
Prairie Ridge Sports Complex-Parking Lot Access	Public Works	STR-18-005	100,000
SW Oralabor Road and DMAACC Intersection	Public Works	STR-18-008	100,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	350,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	555,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	2,925,000
NW Tower Transmission Main	Water Utility	WTM-17-009	1,950,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	250,000
Aquifer Storage and Recovery #1 Replacement	Water Utility	WTT-17-002	3,750,000
Concept & Site Study for Future NW Water Tower	Water Utility	WTT-18-001	250,000
Total for 2022			21,142,000
GRAND TOTAL			142,922,999

City of Ankeny, Iowa
 2018 - 2022 Capital Improvement Program
 2018 thru 2022

FUNDING SOURCE SUMMARY

Source	2018	2019	2020	2021	2022	Total
Ankeny Community Foundation	97,000					97,000
Capital Project Fund	248,000	250,000				498,000
Capital Reserve Fund	6,765,000	1,775,000				8,540,000
Civic Trust Fund	11,500,000					11,500,000
County Contributions	155,000	1,000,000				1,155,000
FHWA/IDOT Grants	1,270,000	900,000	651,000	200,000		3,021,000
G.O. Bonds	7,294,000	7,769,666	7,707,666	9,251,667	8,552,000	40,574,999
G.O. Bonds - Referendum	6,350,000	4,700,000				11,050,000
G.O. Bonds - Storm Water Abated				650,000		650,000
G.O. Bonds - TIF Abated	5,804,000	6,060,000	1,474,000			13,338,000
General Fund	441,000	200,000	251,000			892,000
Golf Course Fund	40,000					40,000
Hawkeye Park Player Fees Fund	50,000					50,000
Hotel/Motel Tax Fund	546,000	50,000	285,000	235,000	50,000	1,166,000
IDNR/REAP Grants		200,000		200,000		400,000
MPO/STP Grants	150,000	100,000	750,000	1,480,000		2,480,000
Park Dedication Fund	50,000	50,000	50,000	50,000	50,000	250,000
Private Contributions	804,000	1,000,000			50,000	1,854,000
Road Use Tax Fund	665,000	1,295,000	575,000	700,000	400,000	3,635,000
Sewer Fund	2,750,000	1,668,000	607,000	995,000	2,110,000	8,130,000
Sports Complex Foundation Fund	20,000					20,000
Storm Water Fund	820,000	590,000	400,000	250,000	250,000	2,310,000
Water Fund	1,630,000	433,000	612,000	785,000	555,000	4,015,000
Water Revenue Bonds	5,827,000	5,320,000	3,590,000	3,395,000	9,125,000	27,257,000
GRAND TOTAL	53,276,000	33,360,666	16,952,666	18,191,667	21,142,000	142,922,999

City of Ankeny, Iowa
 2018 - 2022 Capital Improvement Program
 2018 thru 2022

PROJECTS BY FUNDING SOURCE

Source	Project #	2018	2019	2020	2021	2022	Total
Ankeny Community Foundation							
Ankeny Market & Pavilion	PRK-13-001	97,000					97,000
Ankeny Community Foundation Total		97,000					97,000
Capital Project Fund							
Community Entrance Signs	BLD-18-002	25,000					25,000
Otter Creek Golf Course Patio Addition	PRK-18-002	23,000					23,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	50,000					50,000
Annual Street Replacement Program	STR-00-004		200,000				200,000
Annual Traffic Signal Improvement Program	TRF-00-001	150,000	50,000				200,000
Capital Project Fund Total		248,000	250,000				498,000
Capital Reserve Fund							
Fire Station No. 3	BLD-15-001	1,450,000					1,450,000
Library and Former Library Renovation	BLD-16-001	5,000,000					5,000,000
Senior Center	BLD-18-003	315,000	1,775,000				2,090,000
Capital Reserve Fund Total		6,765,000	1,775,000				8,540,000
Civic Trust Fund							
Library and Former Library Renovation	BLD-16-001	11,500,000					11,500,000
Civic Trust Fund Total		11,500,000					11,500,000
County Contributions							
Senior Center	BLD-18-003		1,000,000				1,000,000
Annual Asphalt Street Resurfacing Program	STR-00-002	55,000					55,000
Annual Traffic Signal Improvement Program	TRF-00-001	100,000					100,000
County Contributions Total		155,000	1,000,000				1,155,000
FHWA/IDOT Grants							
NE 54th Street Bridge Replacement and Trail	BRG-15-001		400,000				400,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001		300,000		200,000		500,000
Ankeny Boulevard and 1st Street Intersection	STR-15-001	500,000					500,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001		200,000				200,000
SE Hulsizer Road Realignment	STR-18-007			651,000			651,000
SE Convenience Boulevard Extension	STR-18-009	435,000					435,000
Annual Traffic Signal Improvement Program	TRF-00-001	335,000					335,000

Source	Project #	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants Total		1,270,000	900,000	651,000	200,000		3,021,000
G.O. Bonds							
Park Maintenance Facility Renovation	BLD-18-001		77,000	622,000		622,000	1,321,000
HVAC Replacement-City Hall	BLD-18-004			500,000			500,000
NE Delaware Avenue Pedestrian Bridge and Sidewalk	BRG-14-002	550,000	220,000				770,000
NE 54th Street Bridge Replacement and Trail	BRG-15-001	100,000	675,000				775,000
NE Four Mile Drive RCB Culvert for Deer Creek	BRG-17-001	975,000					975,000
Annual Park Development Program	PRK-00-002	450,000	300,000	300,000	300,000	300,000	1,650,000
Hawkeye Park Sports Complex-Field Lighting	PRK-13-002	50,000					50,000
Prairie Ridge Sports Complex-Drainage Improvements	PRK-14-002			78,000			78,000
Prairie Ridge Sports Complex-Tee Ball Field	PRK-17-001			154,000			154,000
High Trestle Trail Trailhead and Parking Lot	PRK-18-001			130,000			130,000
Hawkeye Park Tennis Courts Replacement	PRK-18-003		730,000				730,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	305,000	175,000	250,000	250,000	250,000	1,230,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001	120,000	660,000	120,000	710,000		1,610,000
Annual PCC Street Patching Program	STR-00-001	760,000	713,000	752,000	850,000	835,000	3,910,000
Annual Asphalt Street Resurfacing Program	STR-00-002	154,000	150,000	150,000	150,000	150,000	754,000
Annual Pavement Preservation Program	STR-00-003	200,000	200,000	200,000	200,000	200,000	1,000,000
Annual Street Replacement Program	STR-00-004			150,000	150,000	300,000	600,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004	65,000	469,666	1,066,666	666,667		2,267,999
NW Irvinedale Drive & NW 5th Street Intersection	STR-14-005	2,550,000					2,550,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006			100,000	300,000	4,675,000	5,075,000
Ankeny Boulevard and 1st Street Intersection	STR-15-001	350,000					350,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001	275,000	2,800,000				3,075,000
NW 18th Street Extension-Weigel to Abbie	STR-16-002			400,000	3,550,000		3,950,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003					210,000	210,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004	100,000	600,000	2,150,000	1,570,000		4,420,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001			235,000	185,000		420,000
NW 36th St and NW Ash Dr Interim Improvements	STR-18-002					25,000	25,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003					25,000	25,000
NW 18th Street Extension-Abbie to Highway 415	STR-18-004					460,000	460,000
Prairie Ridge Sports Complex-Parking Lot Access	STR-18-005				20,000	100,000	120,000
SW Oralabor Road and DMACC Intersection	STR-18-008					50,000	50,000
Annual Traffic Signal Improvement Program	TRF-00-001	290,000		350,000	350,000	350,000	1,340,000
G.O. Bonds Total		7,294,000	7,769,666	7,707,666	9,251,667	8,552,000	40,574,999
G.O. Bonds - Referendum							
Fire Station No. 3	BLD-15-001	2,550,000					2,550,000
Library and Former Library Renovation	BLD-16-001	3,800,000	4,700,000				8,500,000
G.O. Bonds - Referendum Total		6,350,000	4,700,000				11,050,000
G.O. Bonds - Storm Water Abated							
Saylor Creek Tributary Channel Improvements	STM-17-001				650,000		650,000
G.O. Bonds - Storm Water Abated Total					650,000		650,000
G.O. Bonds - TIF Abated							
SW Plaza Parkway and SW College Avenue Extension	COR-15-001	2,460,000					2,460,000
SW Des Moines Street Trunk Sewer-Magazine to Elm	COR-16-003	414,000					414,000

Source	Project #	2018	2019	2020	2021	2022	Total
SW Des Moines Street-Prairie Trail to Magazine	COR-16-004	390,000	4,910,000				5,300,000
The District at Prairie Trail-SW Market Street	COR-17-002	1,240,000					1,240,000
SW Prairie Trail Parkway Sidewalk Improvements	COR-17-003	125,000					125,000
SW State Street and SW Magazine Road Intersection	COR-18-001	650,000					650,000
SE Creekview Drive Drainage and Paving Improvement	STR-05-003	525,000	825,000				1,350,000
SE Hulsizer Road Realignment	STR-18-007		325,000	1,474,000			1,799,000
G.O. Bonds - TIF Abated Total		5,804,000	6,060,000	1,474,000			13,338,000

General Fund

Prairie Ridge Sports Complex-Drainage Improvements	PRK-14-002	76,000					76,000
Older Parks Renovation Plan	PRK-17-003	365,000	200,000	251,000			816,000
General Fund Total		441,000	200,000	251,000			892,000

Golf Course Fund

Otter Creek Golf Course Patio Addition	PRK-18-002	40,000					40,000
Golf Course Fund Total		40,000					40,000

Hawkeye Park Player Fees Fund

Hawkeye Park Sports Complex-Field Lighting	PRK-13-002	50,000					50,000
Hawkeye Park Player Fees Fund Total		50,000					50,000

Hotel/Motel Tax Fund

Community Entrance Signs	BLD-18-002	296,000	50,000	50,000	50,000	50,000	496,000
Prairie Ridge Sports Complex-Field Lighting	PRK-09-001	95,000					95,000
Hawkeye Park Sports Complex-Field Lighting	PRK-13-002	155,000					155,000
North Ankeny Boulevard Landscaping Improvements	STR-18-001			235,000	185,000		420,000
Hotel/Motel Tax Fund Total		546,000	50,000	285,000	235,000	50,000	1,166,000

IDNR/REAP Grants

High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001		200,000		200,000		400,000
IDNR/REAP Grants Total			200,000		200,000		400,000

MPO/STP Grants

NE Delaware Avenue Pedestrian Bridge and Sidewalk	BRG-14-002	150,000					150,000
High Trestle Trail Extension-Ordinance to Oralabor	SDW-16-001		100,000		150,000		250,000
West 1st Street Widening and Improvements-Phase 1	STR-16-004			750,000	1,330,000		2,080,000
MPO/STP Grants Total		150,000	100,000	750,000	1,480,000		2,480,000

Park Dedication Fund

Annual Park Development Program	PRK-00-002	50,000	50,000	50,000	50,000	50,000	250,000
Park Dedication Fund Total		50,000	50,000	50,000	50,000	50,000	250,000

Private Contributions

Source	Project #	2018	2019	2020	2021	2022	Total
Senior Center	BLD-18-003		1,000,000				1,000,000
Prairie Ridge Sports Complex-Field Lighting	PRK-09-001	95,000					95,000
SW Oralabor Road and DMACC Intersection	STR-18-008					50,000	50,000
SE Convenience Boulevard Extension	STR-18-009	709,000					709,000
Private Contributions Total		804,000	1,000,000			50,000	1,854,000

Road Use Tax Fund

SW State Street Median Study	COR-18-002		25,000				25,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	325,000	300,000	100,000	100,000	100,000	925,000
Annual Street Replacement Program	STR-00-004	300,000	425,000	475,000	600,000	300,000	2,100,000
S Ankeny Blvd and SW Oralabor Rd Safety Studies	STR-18-006	40,000	45,000				85,000
Annual Traffic Signal Improvement Program	TRF-00-001		500,000				500,000
Road Use Tax Fund Total		665,000	1,295,000	575,000	700,000	400,000	3,635,000

Sewer Fund

Annual Sanitary Sewer Replacement Program	SNS-00-001	675,000	568,000	607,000	735,000	720,000	3,305,000
Otter Creek Trunk Sewer-Phase 3	SNS-11-001				260,000	1,240,000	1,500,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001					150,000	150,000
Deer Creek Trunk Sewer	SNS-17-001	1,475,000	1,100,000				2,575,000
SE Delaware Bank Stabilization	SNS-18-001	325,000					325,000
Sanitary Sewer Study and Master Plan	SNS-18-002	225,000					225,000
NW Irvinedale Drive & NW 5th Steet Intersection	STR-14-005	50,000					50,000
Sewer Fund Total		2,750,000	1,668,000	607,000	995,000	2,110,000	8,130,000

Sports Complex Foundation Fund

Hawkeye Park Sports Complex-Field Lighting	PRK-13-002	20,000					20,000
Sports Complex Foundation Fund Total		20,000					20,000

Storm Water Fund

Annual Storm Water Replacement Program	STM-00-001	270,000	250,000	250,000	250,000	250,000	1,270,000
Saylor Creek Tributary Channel Improvements	STM-17-001			150,000			150,000
SE Peterson Drive & SE Trilein Drive Storm Sewer	STM-18-001	550,000					550,000
Wildflower Detention Basin Improvements	STM-18-002		340,000				340,000
Storm Water Fund Total		820,000	590,000	400,000	250,000	250,000	2,310,000

Water Fund

Annual Water Main Replacement Program	WTM-00-001	900,000	433,000	612,000	785,000	555,000	3,285,000
NW Booster Station	WTM-15-003	600,000					600,000
Ash Water Tower Repair and Repaint	WTT-17-001	130,000					130,000
Water Fund Total		1,630,000	433,000	612,000	785,000	555,000	4,015,000

Water Revenue Bonds

SE Creekview Drive Drainage and Paving Improvement	STR-05-003	425,000					425,000
E 1st Street and I-35 Interchange Reconstruction	STR-11-004		950,000				950,000
NW Irvinedale Drive & NW 5th Steet Intersection	STR-14-005	300,000					300,000
S Ankeny Blvd and SE Shurfine Dr Intersection	STR-16-001		100,000				100,000

Source	Project #	2018	2019	2020	2021	2022	Total
Ash Tower Transmission Main	WTM-15-002	2,100,000					2,100,000
NW Booster Station	WTM-15-003	2,222,000					2,222,000
High Trestle Trail Transmission Main	WTM-17-001				200,000	2,925,000	3,125,000
SE Magazine Road Water Main Improvements	WTM-17-003		930,000				930,000
SW Irvinedale Drive Transmission Main-Phase 1	WTM-17-004	225,000	3,000,000				3,225,000
NW State Street Water Main Improvements	WTM-17-005		90,000				90,000
SW Irvinedale Drive Transmission Main-Phase 2	WTM-17-006		250,000	3,450,000			3,700,000
SW Irvinedale Drive Transmission Main-Phase 3	WTM-17-007			140,000	1,995,000		2,135,000
Purchase Capacity in Saylorville Feeder Main	WTM-17-008				800,000		800,000
NW Tower Transmission Main	WTM-17-009				150,000	1,950,000	2,100,000
South Ankeny Boulevard Transmission Main	WTM-18-001					250,000	250,000
Trestle Ridge Estates 24" Water Main	WTM-18-002	130,000					130,000
Ash Water Tower Repair and Repaint	WTT-17-001	50,000					50,000
Aquifer Storage and Recovery #1 Replacement	WTT-17-002				250,000	3,750,000	4,000,000
Concept & Site Study for Future NW Water Tower	WTT-18-001	375,000				250,000	625,000
Water Revenue Bonds Total		5,827,000	5,320,000	3,590,000	3,395,000	9,125,000	27,257,000
GRAND TOTAL		53,276,000	33,360,666	16,952,666	18,191,667	21,142,000	142,922,999

Section 4

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Fire
Contact Fire Chief

Project # BLD-15-001
Project Name Fire Station No. 3

Type New Construction
Useful Life 40 years
Category Municipal Buildings

Description

Completion of the new three-bay fire station in front of Otter Creek Golf Course that is currently under construction. The same building design as Station No. 2 is being utilized for this new station since it has proved to be a very functional and efficient design. The construction of Fire Station No. 3 commenced in August 2017, and is expected to be completed, outfitted and ready for service in September 2018.

Justification

This new station will provide timely and efficient emergency responses to the new residential and commercial areas within the northern portion of the city. As Ankeny continues to grow and expand to the north, the fire department is becoming less able to respond to fires, medical emergencies and rescue calls with adequate response resources and within the council goal of 8 minutes, 80% of the time. Adding Station No. 3 will allow for the department to respond much quicker to the frequent emergencies that occur on Interstate 35. It will also facilitate an upgrade in our ISO rating from Class 4 to Class 3, which will reduce property insurance rates for our citizens.



Expenditures	2018	2019	2020	2021	2022	Total
Architect	235,000					235,000
Construction Costs	3,315,000					3,315,000
Furniture, Fixtures & Equipment	450,000					450,000
Total	4,000,000					4,000,000

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Reserve Fund	1,450,000					1,450,000
G.O. Bonds - Referendum	2,550,000					2,550,000
Total	4,000,000					4,000,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	BLD-16-001
Project Name	Library and Former Library Renovation

Description

Building improvements as described in the 2015 City Facilities Needs Study. The recommended plan provides facilities so that the four departments located in the current Public Services Building can relocate from that leased facility. The project scope includes a new 55,000 SF Ankeny Kirkendall Public Library and city council chambers in Prairie Trail. It also includes the full remodeling of the existing Kirkendall Library into an office building for utilization as the new Public Services Building.

Justification

The existing library is drastically undersized. The new facility will provide approximately twice as much library space. The current council chambers are also severely undersized. The new chambers will be over twice the capacity. The existing Public Services Building carries a significant lease payment, which is not practical for long-term occupancy. Constructing the new library within Prairie Trail will meet the terms of a previous agreement with DRA Properties and will allow for utilization of civic trust funding.



Expenditures	2018	2019	2020	2021	2022	Total
Architect	1,100,000	350,000				1,450,000
Construction Costs	15,000,000	4,350,000				19,350,000
Land/ROW Acquisition	1,400,000					1,400,000
Furniture, Fixtures & Equipment	2,800,000					2,800,000
Total	20,300,000	4,700,000				25,000,000

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Reserve Fund	5,000,000					5,000,000
Civic Trust Fund	11,500,000					11,500,000
G.O. Bonds - Referendum	3,800,000	4,700,000				8,500,000
Total	20,300,000	4,700,000				25,000,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		5,000	20,000	20,000	20,000	65,000
Total		5,000	20,000	20,000	20,000	65,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description
 Renovate and expand the current Park Maintenance Facility.

Justification

The current Park Maintenance Shop, located at 210 NW Ash Drive, serves the entire park system. These facilities have provided accommodation for the past fifty-two years. As Ankeny continues to grow and additional parks, facilities, parking lots, trail and park amenities are brought into the system, this maintenance facility will need to be improved to stay in step with the growth.

The current facility has been included in various city facility assessments with options that included moving the facility to the old Wastewater Treatment Plant or current Public Works locations, but the overall construction costs have been prohibitive. Based on the facility’s centrally located position within the city, current site services and its proximity to community and regional trail connections, department staff is recommending expanding the current building to better accommodate Ankeny’s growth and needed space requirements.

The current Parks & Facilities Plan outlines an economical approach to expanding the facility at its current site with identified immediate needs and potential long term needs. With the vacation of the Godwin building on SW Des Moines Street and the demolition of the storage buildings on SW 3rd Street, the vast majority of the Parks Division’s equipment has been dispersed and/or now needs to be stored outside. Many inefficiencies and problematic conditions are created by having our equipment presently scattered throughout the city at the old Wastewater Plant, beneath the west water tower and sitting outside in the elements year-round.

The estimated project costs include renovating the current office spaces and adjoining an 80’x50’ addition on the west end of the facility that would accommodate our current and future support vehicles. Phase I work includes renovating the office area, break room, restrooms (42’x50’) and running new sanitary and water services. Phase II includes the 80’x50’ metal building addition, storm water management, new doors and parking lot improvements.



Expenditures	2018	2019	2020	2021	2022	Total
Architect		77,000				77,000
Engineering-Construction Services			22,000		22,000	44,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager

Construction Costs		600,000	600,000	1,200,000
Total	77,000	622,000	622,000	1,321,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds		77,000	622,000		622,000	1,321,000
Total		77,000	622,000		622,000	1,321,000

Budget Impact/Other

Maintenance and operating costs for Phase I will be insignificant as this phase of construction will be renovations, which will ultimately include some overall cost savings with improved energy efficiencies. The building addition for Phase II will result in additional operating and maintenance costs beginning in fiscal year 2019 and is estimated at \$8,600 annually.

Budget Items	2018	2019	2020	2021	2022	Total
Utilities					8,600	8,600
Total					8,600	8,600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager

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

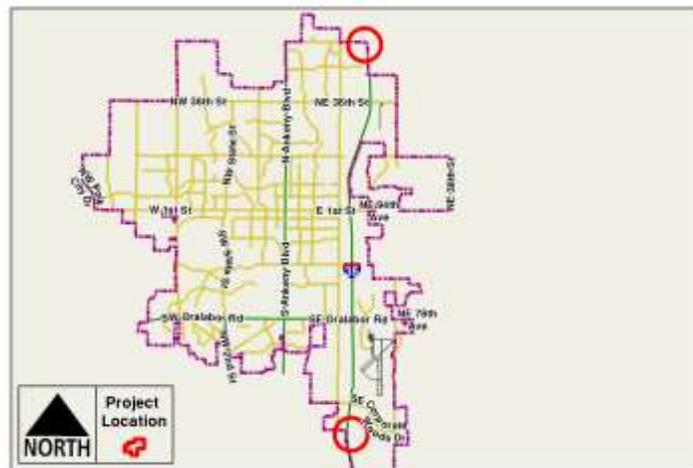
Type New Construction
Useful Life 40 years
Category Municipal Buildings

Description

Installation of two large welcome signs along Interstate 35. One sign will be constructed at the northeast corner of the Otter Creek property for viewing by southbound traffic, and a second sign will be constructed to the south of the SE Corporate Woods Interchange ramp for viewing by northbound traffic. The decorative signs shall be approximately 30 feet wide by 19 feet tall and will be constructed of structural concrete and brick veneer. Flood lighting, berms, electrical connections, and landscaping improvements are included with each sign.

Justification

The installation of welcome signs was identified by the city council as a priority in the latest strategic planning sessions. As a first phase of meeting this objective, the two large scale signs will be built for viewing along Interstate 35. Additional smaller-scale signs are planned for future consideration pending council authorization. These smaller signs will be placed at the entry points to Ankeny along the state highways and county collector routes.



Expenditures	2018	2019	2020	2021	2022	Total
Architect	25,000					25,000
Construction Costs	296,000	50,000	50,000	50,000	50,000	496,000
Total	321,000	50,000	50,000	50,000	50,000	521,000

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Project Fund	25,000					25,000
Hotel/Motel Tax Fund	296,000	50,000	50,000	50,000	50,000	496,000
Total	321,000	50,000	50,000	50,000	50,000	521,000

Budget Impact/Other

After completion, the two signs will require electric service and a minor amount of landscaping maintenance each year.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		500	500	500	500	2,000
Utilities		300	300	300	300	1,200
Total		800	800	800	800	3,200

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	BLD-18-003
Project Name	Senior Center

Description

Construction of a senior citizen center/public building within Hawkeye Park. The proposed building will include facilities for serving senior citizens of the community with congregate meals, an indoor walking facility, other recreation facilities, and a possible food pantry operation. Improvements include construction of the building, parking lot, entrance, sidewalks, landscaping, lighting and associated improvements. This project will require the demolition of the Hawkeye Park playground and tennis courts. Replacement of the tennis courts will be proposed by Parks and Recreation under a separate request.

Justification

There is a definite recognized need to serve the aging population of the City of Ankeny and surrounding areas of Polk County. Outside funding for this project is tentatively secured from a local developer and Polk County.



Expenditures	2018	2019	2020	2021	2022	Total
Architect	315,000					315,000
Engineering-Construction Services		25,000				25,000
Construction Costs		3,750,000				3,750,000
Total	315,000	3,775,000				4,090,000

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Reserve Fund	315,000	1,775,000				2,090,000
County Contributions		1,000,000				1,000,000
Private Contributions		1,000,000				1,000,000
Total	315,000	3,775,000				4,090,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			15,000	15,000	15,000	45,000
Total			15,000	15,000	15,000	45,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description

Replacement of the heating and cooling system within Ankeny City Hall as part of a refurbishing of the building. Other improvements to City Hall will include carpet replacement, painting, exterior grading and updates, and remodeling of the current council chambers.

Justification

The Facilities Needs Study as completed by OPN Architects found that the 11,300 SF City Hall building is in generally fair to good condition, given its age. The building was constructed in 1975 and converted to City Hall in 1997. It was expanded in 2006. The current heat pump/cooling tower system is outdated, and is prone to recurring maintenance expenses. It does not adequately heat and cool the building in extreme weather months. Last year, a portion of the cooling tower required replacement at a cost of \$28,000. There have been many other repairs needed in recent history to keep the HVAC system operating.



Expenditures	2018	2019	2020	2021	2022	Total
Architect			25,000			25,000
Construction Costs			475,000			475,000
Total			500,000			500,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds			500,000			500,000
Total			500,000			500,000

Budget Impact/Other

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

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project #	BRG-14-002
Project Name	NE Delaware Avenue Pedestrian Bridge and Sidewalk

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Description

This project includes constructing a pre-engineered steel truss pedestrian bridge to span Four Mile Creek and an 8 ft wide sidewalk on the west side of NE Delaware Avenue with associated grading and culvert improvements. The project limits are from NE 18th Street north to approximately 150 feet north of NE 24th Court. The pedestrian bridge will be a free-standing structure located immediately west of the existing NE Delaware Avenue bridge over Four Mile Creek. This project also includes the acquisition of permanent and temporary easements on two parcels. The project will be constructed in two phases with Phase 1 being the pedestrian bridge in 2018 and Phase 2 being the 8 ft sidewalk connections in 2019.

Justification

The pedestrian bridge and 8 ft sidewalk will connect the existing sidewalks north and south of Four Mile Creek. It will also provide students with walking access to Northeast Elementary School from the neighborhoods north of NE 18th Street. The improvements associated with this project were identified in the 2009 Safe Routes to School Study and further refined in the 2017 NE Delaware Avenue Trail Connection Study. A federal TAP grant in the amount \$150,000 will be used to help finance the project and will be applied to Phase 1, which will be bid through the Iowa DOT.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	80,000					80,000
Engineering-Construction Services		20,000				20,000
Construction Costs	600,000	200,000				800,000
Land/ROW Acquisition	20,000					20,000
Total	700,000	220,000				920,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	550,000	220,000				770,000
MPO/STP Grants	150,000					150,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Total	700,000	220,000				920,000
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Budget Impact/Other

In the long-term, the new pedestrian bridge and additional sidewalk will add annual maintenance costs for the City's Parks & Recreation and Public Works departments.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			250	250	250	750
Total			250	250	250	750

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Replacement

Useful Life 40 years

Category Bridge/Box Culvert

Project #	BRG-15-001
Project Name	NE 54th Street Bridge Replacement and Trail

Description

Replace bridge on NE 54th Street over the east branch of Four Mile Creek, approximately 1,300 feet west of NE Delaware Avenue. The new bridge will include sufficient width to allow for an 8 ft sidewalk on the south side. The project will also include minor reconstruction of NE 54th Street between NE Hillcrest Drive and NE Briarwood Drive to accommodate the bridge replacement, along with new 8 ft sidewalk connections to the existing sidewalks on the south side of NE 54th Street. The proposed schedule has preliminary design and permitting occurring in 2017, final design in 2018 (assume October letting), and construction in 2019.

Justification

The 2016 inspection report for this bridge gave it a low service rating (39 out of 100) and recommended replacing the bridge in approximately 3 years. In early 2017, the City Council approved the posting of a weight restriction on the existing bridge. Also, a pedestrian crossing of the waterway is needed at this location to provide connectivity in the City’s sidewalk/trail system and to provide better access to the various residential developments in this area of the City. The 2010 Comprehensive Plan shows continuous sidewalk along NE 54th Street from the High Trestle Trail on the west to County NE 38th Street on the east. As requested by Public Works, the Iowa DOT added the bridge to its City Bridge Priority List in 2016, which will make it eligible for State funding as a part of the Bridge Replacement Fund (BRF). The project has already received \$400,000 in Federal funding for FFY 2019 as a part of the Surface Transportation Block Grant program (STBG). The Federal and State funds can be used in conjunction for this project; however, no State funds are shown due to the amount of potential BRF money being unknown as this time.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	100,000					100,000
Engineering-Construction Services		100,000				100,000
Construction Costs		975,000				975,000
Total	100,000	1,075,000				1,175,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants		400,000				400,000
G.O. Bonds	100,000	675,000				775,000
Total	100,000	1,075,000				1,175,000

Budget Impact/Other

The new bridge and added 8-ft sidewalk will have a negligible impact on the City's maintenance costs. The bridge will be added to the Annual Bridge Inspection Program for monitoring purposes.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

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

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Description

New reinforced concrete box (RCB) culvert to accommodate future NE Four Mile Drive extension across Deer Creek. Hydraulic analysis will be required to determine the final culvert size. Twin, 12 feet (Width) x 8 feet (Height) x 214 feet (Length) preliminary sizing was used to develop the planning level opinion of cost.

Justification

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



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services	75,000					75,000
Construction Costs	900,000					900,000
Total	975,000					975,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	975,000					975,000
Total	975,000					975,000

Budget Impact/Other

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

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Project #	COR-15-001
Project Name	SW Plaza Parkway and SW College Avenue Extension

Type New Construction

Useful Life 40 years

Category Corridor Development

Description

This project includes the extension of SW College Avenue from SW Oralabor Road to a projected intersection with SW Plaza Parkway and the extension of SW Plaza Parkway from this projected intersection to its current east and west termini. This project also includes engineering design and construction services, associated paving and utility improvements, installation of street lighting by MidAmerican Energy and improvements on SW Oralabor Road at the new intersection. Since SW Oralabor Road/IA Highway 415 is a joint jurisdictional roadway, the proposed intersection improvements would need to be coordinated with the Iowa DOT.

Justification

The justification for this project is to support the current and planned development in this portion of Prairie Trail. This project will improve the traffic flow in this area by connecting residential and commercial areas and providing an additional street connection to SW Oralabor Road. It is anticipated that the intersection of SW College Avenue and SW Oralabor Road will warrant a traffic signal in the future; however, the anticipated cost of approximately \$300,000 for a new traffic signal is not included in the estimated project costs.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	330,000					330,000
Construction Costs	2,025,000					2,025,000
Street Lighting	105,000					105,000
Total	2,460,000					2,460,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	2,460,000					2,460,000
Total	2,460,000					2,460,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		1,300	1,300	1,300	1,300	5,200
Utilities		2,000	2,000	2,000	2,000	8,000
Total		3,300	3,300	3,300	3,300	13,200

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Corridor Development

Project #	COR-16-003
Project Name	SW Des Moines Street Trunk Sewer-Magazine to Elm

Description

New 8” diameter sanitary sewer from the north side of the SW Magazine Road/SW Des Moines Street intersection north to the south side of the SW Elm Street/SW Des Moines Street intersection.

Justification

The purpose of this project is to complete the sanitary line from an existing 8” stub on the south side of SW Elm Street to an existing 8” stub on the north side of SW Magazine Road. This project will allow for future development off of SW Des Moines Street (East).



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	69,000					69,000
Construction Costs	345,000					345,000
Total	414,000					414,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	414,000					414,000
Total	414,000					414,000

Budget Impact/Other

Since this is new 8" diameter 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. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 30 hours. There will also be 24 hours to review the plans and answer questions during the design phase.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	3,600					3,600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Total	3,600	3,600
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2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Corridor Development

Project #	COR-16-004
Project Name	SW Des Moines Street-Prairie Trail to Magazine

Description

This project includes the construction of SW Des Moines Street from the existing two intersections with SW Magazine Road to the existing intersection with SW Prairie Trail Parkway. This project also includes engineering design and construction services, associated paving and utility improvements, and constructing the wetlands within the SW Des Moines Street loop.

Justification

The justification for this project is to support the current and planned development in this portion of Prairie Trail. This project will improve the traffic flow in the area by connecting residential, commercial and institutional areas to the major collector streets. This project will also support the additional traffic in the area following the construction of the planned elementary school along SW Prairie Trail Parkway.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	390,000					390,000
Engineering-Construction Services		260,000				260,000
Construction Costs		4,425,000				4,425,000
Street Lighting		225,000				225,000
Total	390,000	4,910,000				5,300,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	390,000	4,910,000				5,300,000
Total	390,000	4,910,000				5,300,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			2,000	2,000	2,000	6,000
Utilities			4,500	4,500	4,500	13,500
Total			6,500	6,500	6,500	19,500

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Corridor Development

Project #	COR-17-002
Project Name	The District at Prairie Trail-SW Market Street

Description

This project includes the construction of SW Market Street from its current terminus north to the intersection with SW District Drive, extensions of SW Park Square Drive to its current terminus and SW 16th Street to SW State Street, and adding a northbound right turn lane on SW State Street. This project also includes engineering construction services, associated paving and utility improvements, and the purchase of city-supplied street lighting materials.

Justification

The justification for this project is to support the current and planned development in The District at Prairie Trail. This project will improve traffic flow in The District area by connecting commercial areas and providing additional street connections to the adjacent major collector streets. This project is scheduled for construction in 2018.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services	90,000					90,000
Construction Costs	1,125,000					1,125,000
Street Lighting	25,000					25,000
Total	1,240,000					1,240,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	1,240,000					1,240,000
Total	1,240,000					1,240,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		700	700	700	700	2,800
Utilities		1,300	1,300	1,300	1,300	5,200
Total		2,000	2,000	2,000	2,000	8,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Corridor Development

Project #	COR-17-003
Project Name	SW Prairie Trail Parkway Sidewalk Improvements

Description

Construction of an 8 ft wide sidewalk along the south side of SW Prairie Trail Parkway connecting between SW College Avenue and SW State Street.

Justification

The purpose of this project is to support the existing and planned residential development in this area of Prairie Trail and develop the City of Ankeny's park property. This project will also eliminate a sidewalk gap and improve pedestrian mobility. This project is scheduled for design and construction in 2018.



Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	125,000					125,000
Total	125,000					125,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	125,000					125,000
Total	125,000					125,000

Budget Impact/Other

The added 8 ft sidewalk will increase maintenance costs for the City due to the additional winter maintenance that will be required.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		250	250	250	250	1,000
Total		250	250	250	250	1,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Corridor Development

Project #	COR-18-001
Project Name	SW State Street and SW Magazine Road Intersection

Description

This project includes adding northbound and southbound right turn lanes on SW State Street at the SW Magazine Road intersection. This project also includes engineering design and construction services, associated paving and utility improvements and potentially relocating some existing traffic signal infrastructure. This project is scheduled for design and construction in 2018.

Justification

The justification for this project is to improve the traffic mobility and safety at the SW State Street and SW Magazine Road intersection and support the current and planned development in this area of the Prairie Trail development.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	100,000					100,000
Construction Costs	550,000					550,000
Total	650,000					650,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	650,000					650,000
Total	650,000					650,000

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		150	150	150	150	600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Total	150	150	150	150	600
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2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # COR-18-002

Project Name SW State Street Median Study

Type Improvement

Useful Life 20 years

Category Corridor Development

Description

Complete a concept study, develop concept alternative(s), and prepare a conceptual opinion of probable cost for potential modifications to the existing medians on SW State Street, between SW Prairie Trail Parkway and SW 16th Street.

Justification

The purpose of the project is to determine whether traffic mobility can be improved on SW State Street, between SW Prairie Trail Parkway and SW 16th Street, by making geometric modifications to the existing medians. The existing lane widths on SW State Street are narrower than the preferred width recommended by the Statewide Urban Design and Specifications (SUDAS) Design Manual for an arterial street carrying high traffic volumes. If the study shows geometric modifications to the medians would be beneficial, Public Works staff will consider programming the design and construction phases for future years.



Expenditures	2018	2019	2020	2021	2022	Total
Consultant		25,000				25,000
Total		25,000				25,000

Funding Sources	2018	2019	2020	2021	2022	Total
Road Use Tax Fund		25,000				25,000
Total		25,000				25,000

Budget Impact/Other

Since this is a study and no construction is being programmed at this time, there is not an operating impact.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

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

Justification
 2018
 •Deer Creek Park Development - Playground, Parking Lot, Trail Loop, Shelter & Basketball Court
 2019
 •Swings & Ball Diamond Installation at Otter Creek Park
 •Shelter at White Birch Park
 •Fishing Pier at Hawkeye Park
 2020-2022
 •Other Projects TBD (based on park dedication, development funding and pace of development)

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	500,000	350,000	350,000	350,000	350,000	1,900,000
Total	500,000	350,000	350,000	350,000	350,000	1,900,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	450,000	300,000	300,000	300,000	300,000	1,650,000
Park Dedication Fund	50,000	50,000	50,000	50,000	50,000	250,000
Total	500,000	350,000	350,000	350,000	350,000	1,900,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Budget Impact/Other

The addition of a city owned playground will increase operating and maintenance costs by a negligible amount. Maintenance hours have been included for the cleaning/clearing of the parking lot and safety inspections of the playground equipment. Additional safety surfacing will be needed to top-dress the safety surface in approximately 4-5 years due to decomposition at a cost of \$2,000.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs	1,000					1,000
Total	1,000					1,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	PRK-13-001
Project Name	Ankeny Market & Pavilion

Description

The Ankeny Market & Pavilion (AMP) project consists of the following amenities: Farmer’s Market Pavilion, Trailhead, Restroom Facility, Trail, Plaza, and Gateway Entry Features. The AMP will serve as the home of the Ankeny Farmer’s Market and the trailhead facility for the High Trestle Trail.

Justification

The \$2.2 million dollar project will be funded primarily through private donations and grants. Project progress will reflect contributions and fundraising efforts. Public fundraising began in 2013. Overall, the City has contributed \$364,405 towards the project. The first pavilion was installed in the spring of 2016 and the second one was erected in the spring of 2017. Remaining projects for the site include installation of the restroom facilities, bike plaza area and landscaping.



Expenditures	2018	2019	2020	2021	2022	Total
Architect	3,000					3,000
Construction Costs	94,000					94,000
Total	97,000					97,000

Funding Sources	2018	2019	2020	2021	2022	Total
Ankeny Community Foundation	97,000					97,000
Total	97,000					97,000

Budget Impact/Other

Installation of the restroom and construction of the bike plaza will result in additional operating and maintenance costs of \$8,000 annually.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	PRK-13-002
Project Name	Hawkeye Park Sports Complex-Field Lighting

Description

Hawkeye Park Sports Complex field lighting consists of new sports field lights for our two softball fields at Hawkeye Park. The current lights are old, wearing out and do not provide ample lighting for safe adult play nor do they meet regulations for tournament activities.

Justification

The sports field lighting project would be cost shared with the City’s Hotel/Motel Tax Fund contributing \$155,000. Other partners include the Ankeny Sports Complex Foundation contributing \$20,000 and the Hawkeye Park Players Fund contributing \$50,000.

There is an option to install LED lighting for an additional \$75,000. The advantages to LED would be no overflow of lighting to adjacent residences, lower utility costs and lower maintenance costs.



Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	275,000					275,000
Total	275,000					275,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	50,000					50,000
Hawkeye Park Player Fees Fund	50,000					50,000
Hotel/Motel Tax Fund	155,000					155,000
Sports Complex Foundation Fund	20,000					20,000
Total	275,000					275,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	PRK-14-002
Project Name	Prairie Ridge Sports Complex-Drainage Improvements

Description

Prairie Ridge Sports Complex soccer fields are in need of subsurface drainage and grading work. Field #34 was completed in 2015 and Field #36 was completed in 2016. Field #31 is next in line for renovation and is currently in the poorest condition.

This will be a phased approach with renovating and re-establishing safe and durable playing surfaces.

2018 – Field #31
 2020 – Field #32

Justification

There are no subsurface drainage lines at these Prairie Ridge Sports Complex soccer fields. While some surface drainage does exist, due to the level of play and duration of seasonal usage, subsurface tiling is needed so that the fields can drain optimally. Fields #31 & #32 are in need of re-crowning and subsurface drainage. This eliminates low spots, standing water and also gets water off the playing surface in a more expedited manner. With play increasing every year and the fields being used extensively March through mid-November, the work would be done after the fall soccer season and not utilized until the fall of 2019. Specific details regarding the temporary movement of games and practices would occur with the Iowa Rush Soccer Club as the field would be unplayable for the better part of the spring season. Department staff will be doing as much work internally as possible to help as a cost savings. This work will include earthwork, seeding and resetting of the irrigation heads, a total estimated savings of \$10,000 per field.



Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	76,000		78,000			154,000
Total	76,000		78,000			154,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds			78,000			78,000
General Fund	76,000					76,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Total	76,000	78,000	154,000
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Budget Impact/Other

The reconstruction of fields #31 & #32 will increase operating and maintenance costs by a negligible amount as this is a renovation project and the fields already exist and are currently being utilized.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	PRK-17-001
Project Name	Prairie Ridge Sports Complex-Tee Ball Field

Description
 Add an additional tee ball field to the Prairie Ridge Sports Complex.

Justification
 This improvement would add a fifth tee ball field to the Prairie Ridge Sports Complex and locate it near the intersection of NW Prairie Ridge Drive and NW State Street.

There are currently four tee ball fields at the Prairie Ridge Sports Complex. With the growth of the Ankeny Little League and an increase in younger participation numbers, an additional tee ball field at the complex would help alleviate some of the current congestion. Little League’s season runs from mid-April through June. Currently, with the large number of participants in the lower levels (utilizing tee ball fields #12-15) Little League needs to schedule games on fields #1-4 (baseball fields) that typically would utilize a tee ball field with a skinned infield. Adding one more tee ball field means 15 pre-little league games a week that won’t need to be scheduled on fields #1-4. Over a 9 week season that's 135 games that would save on the wear-and-tear of the turf infields and relocate the games adjacent to the other four tee ball fields at the complex.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design			18,000			18,000
Construction Costs			136,000			136,000
Total			154,000			154,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds			154,000			154,000
Total			154,000			154,000

Budget Impact/Other
 The construction of an additional tee ball field will increase operating and maintenance costs by \$2,500 annually.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			2,500	2,500	2,500	7,500
Total			2,500	2,500	2,500	7,500

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-17-003

Project Name Older Parks Renovation Plan

Type Improvement

Useful Life 20 years

Category Park Facilities

Description

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

The recommendations found associated with each of the Park Assessments were prioritized to provide the basis of the Capital Improvement Program. These recommendations are based on the inventory and assessment of each park and facility, findings from the inspection process and on an understanding of the funding opportunities that may be appropriate for future projects.

Justification

2018 Renovation Projects Include:

- East parking lot addition at Crestbruck Park - \$135,000
- Replace basketball court at Glenbrooke Park - \$40,000
- Remodel restrooms at Sunset Park - \$75,000
- Replace interior trail at Village Park - Phase I - \$65,000
- Replace outlet structure at Wildflower Park - \$50,000

2019 Renovation Projects Include:

- Replace trail at Crestbruck Park - \$200,000

2020 Renovation Projects Include:

- Parking lot extension at Glenbrooke Park - \$22,000
 - Replace interior trail at Village Park - Phase II - \$65,000
 - Resurface parking lot at Heritage Park - \$99,000
 - Overlay parking lot at Sunset Park - \$15,000
 - Ball diamond renovations at Sunset Park - \$25,000
 - Ball diamond renovations at Sunrise Park - \$25,000
-

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	365,000	200,000	251,000			816,000
Total	365,000	200,000	251,000			816,000

Funding Sources	2018	2019	2020	2021	2022	Total
General Fund	365,000	200,000	251,000			816,000
Total	365,000	200,000	251,000			816,000

Budget Impact/Other

The planned 2018 park renovations will increase operating and maintenance costs by a negligible amount as the majority of the projects are replacements/renovations. Maintenance hours have been included for the cleaning/clearing of the Crestbruck Park parking lot.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs	1,000					1,000
Total	1,000					1,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	PRK-18-001
Project Name	High Trestle Trail Trailhead and Parking Lot

Description

High Trestle Trail Trailhead and Parking Lot - NW Ankeny

Justification

This project is part of the required 6(f) conversion process to replace current parkland that has been repurposed near the Otter Creek Golf Course for the construction of Fire Station No. 3. An additional access point for the High Trestle Trail will be a great amenity for the northwest part of Ankeny and will provide opportunities for physical fitness and help drive bike tourism. The parking lot, bike repair station, hydration station and trail access will be located at 2055 NW Irvinedale Drive, adjacent to the future NW Booster Station. The parking lot and trail access will provide neighboring residents and trail users a much needed feature in the NW part of Ankeny. This project will help fulfill the 6(f) conversion requirements approved by the Iowa DNR Budget & Finance Bureau.



Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs			130,000			130,000
Total			130,000			130,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds			130,000			130,000
Total			130,000			130,000

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			1,500	1,500	1,500	4,500

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Total	1,500	1,500	1,500	4,500
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2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	PRK-18-002
Project Name	Otter Creek Golf Course Patio Addition

Description
 Enlarge existing west patio to make room for wedding ceremonies and banquets during the summer, spring, and fall months.

Justification
 Weddings are becoming more non-traditional and couples are looking for space that can accommodate both their wedding ceremony and reception at the same location. Couples like the idea of a golf course/country club atmosphere with beautiful views and outdoor space for the ceremony. The newly enlarged patio would be able to accommodate up to 175 guests for a wedding ceremony. Using a concrete patio versus the existing grassy area by the pond that we have been utilizing ensures a drier and safer surface if it would rain the night before or the morning of the wedding. We anticipate that by increasing and enhancing the patio area we will be able to book additional wedding receptions that include a ceremony.

The Pinnacle Club can hold a maximum of 250 guests for a wedding reception, but it is a very tight squeeze to accommodate that many guests. An average wedding at the Pinnacle Club in 2017 was 190 guests. The average number of wedding receptions held for the past three years is 13, usually between the months of April-October.

Currently, around 50% of our email requests for weddings are couples looking for a place to hold their ceremony as well as reception. We have to turn away over half of the email requests each year because of this. We anticipate that this improvement will allow us to book an additional 4 – 6 wedding receptions and ceremonies each year. With the Tournament Club of Iowa and Copper Creek Golf Course both offering golf course settings with outdoor patios for wedding ceremonies, couples will go elsewhere to get the services they desire. There would be a cost to use the new patio for ceremonies. The patio space would rent for \$500, plus cost of ceremony chairs added to the initial charge. By booking an additional five weddings over the course of a calendar year, it would generate approximately an additional \$35,000 in revenue or \$7,000 per event.

The patio improvements include an additional 1,625 SF of patio/concrete surface, lighted columns and landscaping improvements. Department staff would relocate irrigation lines prior to construction and potentially help with demolition to save additional funds.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	13,000					13,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description

Construction of six new tennis courts that would replace the six existing courts that will be taken out of service by the construction of the proposed Senior Center in Hawkeye Park. Improvements include grading, drainage work, specialty court surfacing, nets, fencing, lighting, and associated improvements.

Justification

Our tennis courts are utilized heavily by the school district for team play and practice as well as by the public for recreation. The six courts in Hawkeye Park are used regularly for practices by the district and by residents. If these courts were to be eliminated by the proposed building construction, replacement courts would be needed to maintain the level of service for the tennis playing community.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design		70,000				70,000
Construction Costs		530,000				530,000
Vehicle/Equipment		130,000				130,000
Total		730,000				730,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds		730,000				730,000
Total		730,000				730,000

Budget Impact/Other

Since this project would replace the six existing courts, there would only be a minimal change in operating expenses. The expenses are expected to be reduced over the current expenses due to the new condition of the courts. Assume zero impact.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Sidewalks/Trails

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

Description

This program includes constructing pedestrian improvements adjacent to City streets:

- Development sidewalk oversizing, 2018 - \$150,000, 2019 to 2022 - \$50,000/year (previous development agreements)
- Sidewalk and pedestrian ramp gaps along City property & major streets, 2018 to 2022 - \$50,000/year
- ADA Compliance Program, 2018 to 2022 - \$100,000/year
- NE Frisk Drive sidewalk connection, 2018 - \$75,000
- SE Delaware Avenue sidewalk connection, 2018 - \$150,000 □
- West 1st Street 8-ft sidewalk upgrade – Phase 3 (State Street to NW Elementary School), 2018 - \$155,000
- West 1st Street 8-ft sidewalk upgrade – Phase 4 (NW Elementary to High Trestle Trail), 2019 - \$275,000
- SE Magazine Road 8-ft sidewalk upgrade – Phase 3 (Trilein Drive to Delaware Avenue), 2020 - \$150,000

Justification

The purpose of this program is to bring existing pedestrian ramps into ADA compliance and provide new sections of recreational trails and sidewalks adjacent to the City’s arterial and collector streets in order to promote non-motorized travel and a corresponding healthier lifestyle in Ankeny. These projects are often completed in conjunction with the Parks & Recreation Department to maximize the connectivity of the overall trail system. The two phases of West 1st Street sidewalk upgrade are proposed to be designed by a consultant due to engineering staff workload.

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	680,000	475,000	350,000	350,000	350,000	2,205,000
Total	680,000	475,000	350,000	350,000	350,000	2,205,000

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Project Fund	50,000					50,000
G.O. Bonds	305,000	175,000	250,000	250,000	250,000	1,230,000
Road Use Tax Fund	325,000	300,000	100,000	100,000	100,000	925,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Total	680,000	475,000	350,000	350,000	350,000	2,205,000
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Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		700	1,400	2,100	2,800	7,000
Total		700	1,400	2,100	2,800	7,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description

Construction of 1.65 miles of 10' PCC recreation trail along the High Trestle Trail corridor from the trail's current terminus at SW Ordnanace Road, ultimately connecting directly to the Oralabor Gateway Trail/Gay Lea Wilson Trail located just south of SE Oralabor Road.

Justification

The extension of the trail is proposed in two phases. The first phase is to extend the trail from its current terminus at Ordnanace Road southeast to Magazine Road where it will connect to 8' community trail. This segment would include a grade separated crossing (specifically a tunnel) where the trail ROW intersects Highway 69. Staff has reviewed the project with the Iowa DOT for cost sharing opportunities, and the Iowa DOT will provide \$300,000 in funding. Phase II will consist of the trail's extension from SE Magazine Road to a direct connection with the Gay Lea Wilson Trail located on the south side of SE Oralabor Road/Highway 160. Phase II will include a grade separated crossing (specifically an overpass) to navigate trail users over the high traffic volumes experienced on SE Oralabor Road/Highway 160. Staff will be working with the DOT and MPO to obtain as much external funding as possible for Phase II.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	120,000		120,000			240,000
Engineering-Construction Services		60,000		60,000		120,000
Construction Costs		1,200,000		1,200,000		2,400,000
Total	120,000	1,260,000	120,000	1,260,000		2,760,000

Funding Sources	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants		300,000		200,000		500,000
G.O. Bonds	120,000	660,000	120,000	710,000		1,610,000
IDNR/REAP Grants		200,000		200,000		400,000
MPO/STP Grants		100,000		150,000		250,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact City Engineer

Total	120,000	1,260,000	120,000	1,260,000	2,760,000
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Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		650	650	1,650	1,650	4,600
Total		650	650	1,650	1,650	4,600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description

Annual allocation of capital improvement funds for repair and replacement of sanitary sewers and structures. Specific projects for 2018 to 2022 include:

- CIPP sanitary sewer lining: 2018 to 2020 - \$100,000/year; 2021 to 2022 - \$130,000/year
- Manhole major adjustments/repairs: 2018 to 2022 - \$25,000/year
- Sanitary sewer spot repairs: 2018 - \$90,000; 2019 to 2022 - \$50,000/year
- Development sanitary sewer over-sizing: 2018 - \$50,000; 2019 to 2022 - \$30,000/year
- I/3 SE Eastlawn Area Utility Improvements (3 phases): 2018 – \$30,000 (design) \$380,000 (construct); 2019 – \$30,000 (design) \$333,000 (construct); 2020 – \$360,000 (construct)
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2020 - \$42,000 (design); 2021 - \$40,000 (design) \$460,000 (construct); 2022 - \$35,000 (design) \$450,000 (construct); 2023 - \$35,000 (design) \$380,000 (construct); 2024 - \$370,000 (construct)

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.

Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	30,000					30,000
Construction Costs	645,000	568,000	607,000	735,000	720,000	3,275,000
Total	675,000	568,000	607,000	735,000	720,000	3,305,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Funding Sources	2018	2019	2020	2021	2022	Total
Sewer Fund	675,000	568,000	607,000	735,000	720,000	3,305,000
Total	675,000	568,000	607,000	735,000	720,000	3,305,000

Budget Impact/Other

The operating impact of this project will be negative due to the replacement of old and deteriorating sanitary sewer with new PVC mains, relined mains and repaired broken pipes. This will reduce inflow and infiltration 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 to zero in the near term, with the upgraded infrastructure. We will have staff time in sewer video reviews, locating services, jetting services, and field inspections. Additionally, there will be significant administrative time for planning and design work.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	23,000	23,500	24,000	24,500	25,000	120,000
Utilities	200	200	200	200	200	1,000
Total	23,200	23,700	24,200	24,700	25,200	121,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description

Approximately 2,700 LF of 24” diameter and 2,500 LF of 18” diameter trunk sewer from the end of the existing Otter Creek Truck Sewer – Phase 2 on the east side of Interstate 35, extended east to NE Four Mile Drive and south along NE Four Mile Drive to NE 36th Street.

Justification

The Otter Creek Trunk Sewer – Phase 3 initially started at the interstate and extended north to NE 54th Street. The revised project scope goes south instead of north to provide sewer service to land near NE 36th Street, as that area may experience development pressures first.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design				80,000		80,000
Engineering-Construction Services					80,000	80,000
Construction Costs					1,160,000	1,160,000
Land/ROW Acquisition				180,000		180,000
Total				260,000	1,240,000	1,500,000

Funding Sources	2018	2019	2020	2021	2022	Total
Sewer Fund				260,000	1,240,000	1,500,000
Total				260,000	1,240,000	1,500,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

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. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 80 hours. There will also be 50 hours to review the construction plans and field questions during the design phase.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs				3,800	4,800	8,600
Total				3,800	4,800	8,600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

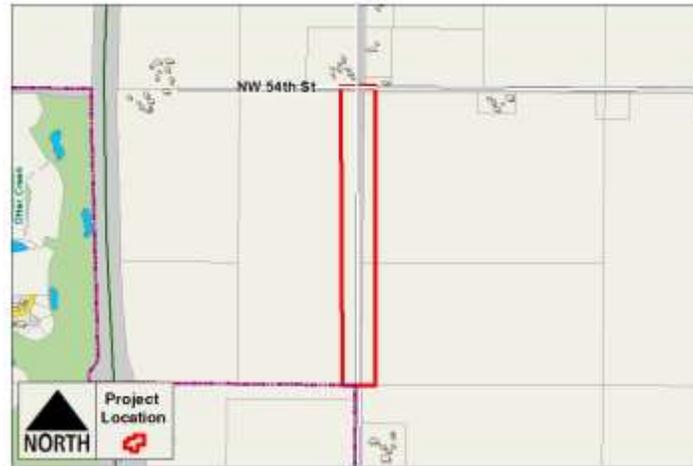
Project # SNS-12-001
Project Name Otter Creek Trunk Sewer-Phase 4

Description

Approximately 3,300 LF of 24” diameter sanitary trunk sewer from the north end of Otter Creek Trunk Sewer – Phase 3 north to NE 54th Street along NE Four Mile Drive.

Justification

The previous Phase 4 project extended from NE 54th Street to NE 126th Avenue. The revised Phase 4 project is south of NE 54th Street. The timing of this project will depend upon development in the area of the NE 36th Street interchange. Construction of this trunk sewer would occur in 2023 with an estimate of \$675,000 including construction observation.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					50,000	50,000
Land/ROW Acquisition					100,000	100,000
Total					150,000	150,000

Funding Sources	2018	2019	2020	2021	2022	Total
Sewer Fund					150,000	150,000
Total					150,000	150,000

Budget Impact/Other

Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have equipment to televise this size of active sewer. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 60 hours. There will also be 40 hours to review the construction plans and field questions during the design phase.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs					3,000	3,000
Total					3,000	3,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	SNS-17-001
Project Name	Deer Creek Trunk Sewer

Description

30-inch trunk sanitary sewer from the end of Deer Creek Trunk Sanitary Sewer – Phase 4, which was previously installed by the developer, on the south side of Deer Creek extended northeast to the south side of NE 18th Street/NE 102nd Avenue (County).

Justification

The purpose of this project is to extend sanitary sewer service from the current Deer Creek Estates development north and east in order to serve properties north of NE 18th Street and east of NE Four Mile Drive. This trunk sanitary sewer extension is necessary to install sewer in advance of adjacent land development, the NE Four Mile Drive Box Culvert, and the future connection of NE Four Mile Drive across Deer Creek. Due to the magnitude of the project, construction has been separated into two years. The easements/land cost could be significantly less than what is shown, pending negotiations with the adjacent property owner (Deer Creek developer).



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	60,000					60,000
Engineering-Construction Services		75,000				75,000
Construction Costs	1,275,000	1,025,000				2,300,000
Land/ROW Acquisition	140,000					140,000
Total	1,475,000	1,100,000				2,575,000

Funding Sources	2018	2019	2020	2021	2022	Total
Sewer Fund	1,475,000	1,100,000				2,575,000
Total	1,475,000	1,100,000				2,575,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

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. There will be staff time to review the initial construction inspection report and field inspections during construction for a total of approximately 60 hours for each segment. There will also be 40 hours to review the construction plans and field questions during the design phase.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	6,600	6,600				13,200
Total	6,600	6,600				13,200

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type Maintenance
Useful Life 20 years
Category Sanitary Sewers

Project # SNS-18-001
Project Name SE Delaware Bank Stabilization

Description

The SE Delaware Bank Stabilization project is located on the east side of SE Delaware Avenue just north of SE 9th Street along Tributary B of Four Mile Creek. Storm water discharges under SE Delaware Avenue at this location through an 8' x 8' box culvert and causes erosion along the north bank of Tributary B. The 21" sanitary trunk sewer needs to be protected from continued erosion. The project will include installation of approximately 100 LF of sheet piling and rip rap to stabilize the stream bank and protect the trunk sewer.

Justification

Municipal Utilities staff has determined the need for this project by visual inspection of the drainage way. This project is justified by the need to maintain a functional sanitary sewer system, reduce inflow and infiltration, and reduce long-term maintenance issues. It is believed that the erosion will continue to reduce the existing 18" of cover on the 21" sanitary trunk sewer.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	75,000					75,000
Construction Costs	250,000					250,000
Total	325,000					325,000

Funding Sources	2018	2019	2020	2021	2022	Total
Sewer Fund	325,000					325,000
Total	325,000					325,000

Budget Impact/Other

This project will have approximately 40 hours of staff time to review the construction plans and field any questions during the design phase of the project. There will be additional staff time of 40 hours to televise and review the report of the existing condition of the trunk sewer and then to televise and review the condition of the trunk sewer after the project to make sure no damage was done.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	7,000					7,000
Total	7,000					7,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 10 years
Category Sanitary Sewers

Project #	SNS-18-002
Project Name	Sanitary Sewer Study and Master Plan

Description

Create a comprehensive City-wide sanitary sewer study and master plan. This will include studying future development areas, existing developed areas, and incorporating previously analyzed sanitary sewer basins into the plan. The plan would also identify existing sanitary sewer pipes that are bottlenecks for the system and create a model for the entire City. Staff could then accurately determine size, location, and depth of all new proposed sanitary sewer projects. The plan would also help identify and prioritize future CIP sanitary sewer improvement projects.

Justification

Both the 2010 and 2017 Ankeny Comprehensive Plans provided general information regarding the future needs for the City’s sanitary sewer system from a higher orbit. The Sanitary Sewer Study and Master Plan will build upon previous reports and involve a comprehensive study of the City’s sanitary sewer infrastructure. The ultimate goal would be to have a plan that outlines a maximum service area, costs to develop the area, layout of trunk sewers to service the area, as well as identifying shortfalls of the existing infrastructure. Deliverables should include a sewer model tied to our GIS and LAMA software including land use layers, comprehensive I&I study, a CIP schedule, and a planned development model.

Expenditures	2018	2019	2020	2021	2022	Total
Consultant	225,000					225,000
Total	225,000					225,000

Funding Sources	2018	2019	2020	2021	2022	Total
Sewer Fund	225,000					225,000
Total	225,000					225,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Budget Impact/Other

Helping the City to prioritize the multiple projects and issues with the existing sewer system and managing the growth and development of the City will be the best benefits for the operation and maintenance staff. There will be many hours of administrative staff time to gather all of the existing information for the model. Field staff will have to verify GIS information in the field. Rain gauges and flow meters will need to be bought and utilized to gather model information. Based on the Water Study, this could be several hours.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	30,000					30,000
Total	30,000					30,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description
Annual allocation of capital improvement funds for repair and replacement of storm sewer, structures, channels, etc. Specific projects, listed in order of priority, for 2018 include: North Creek Phase 2 Erosion Repair, design and construct - \$25,000 Oralabor Culvert Removal, design and construct - \$35,000 Prairie Trail Bioswales Rehabilitation, design and construct - \$20,000 North Prairie Bend Basin Repair, design and construct - \$40,000 Magazine Road Storm Sewer Improvements, design and construct - \$35,000 High Trestle Trail Clear & Grub, and RCB Culvert Removal, design and construct - \$30,000 SW 2nd Street and SW Flynn Drive Intersection Improvements, design and construct - \$65,000 Storm Water Detention Basin Management Projects - \$10,000 Storm Water Conservation Design Features within City Property - \$10,000

Justification
The purpose of the projects is to address erosion issues and bank stability at North Creek Phase 2; removal of a failed pipe culvert in the NE quadrant of the Oralabor Road & State Street intersection; and improve the infiltration functionality and eliminate street ponding issues at the Prairie Tail Bioswales on SW State Street. The North Prairie Bend project will repair a basin sidewall failure and address sedimentation issues; both the Magazine Road Storm Sewer Improvements and High Trestle Trail Clear & Grub and RCB Culvert Removal projects will improve storm water conveyance in the SE Cortina Drive area; and the SW 2nd Street and SW Flynn Drive project will help improve standing water/localized street flooding. Storm water detention basin management projects will be implemented to improve the safety, functionality, ecology, and aesthetics. Storm water conservation design projects will be added on City property to provide water quality improvements and serve as a demonstration for residents.

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	270,000	250,000	250,000	250,000	250,000	1,270,000
Total	270,000	250,000	250,000	250,000	250,000	1,270,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
Storm Water Fund	270,000	250,000	250,000	250,000	250,000	1,270,000
Total	270,000	250,000	250,000	250,000	250,000	1,270,000

Budget Impact/Other

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	2018	2019	2020	2021	2022	Total
Maintenance Costs		-2,000	-4,000	-6,000	-8,000	-20,000
Total		-2,000	-4,000	-6,000	-8,000	-20,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-17-001
Project Name	Saylor Creek Tributary Channel Improvements

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the Saylor Creek Channel Tributary downstream of the Tradition Park Storm Water Detention Basins. The improvements may include reshaping the channel to establish stable slopes, reconnection to the floodplain, addressing diminished flow capacity; providing toe protection; repairing significant sloughing concerns behind the SW Twin Gates Drive residences; and establishing native/wetland plantings.

Justification

The purpose of this project is to stabilize the channel, re-establish flow capacity, and remediate significant erosion issues which have caused safety concerns. The project costs are shown for the concept plan and design work to be completed in 2019 with construction of the project scheduled in 2020.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design			150,000			150,000
Engineering-Construction Services				50,000		50,000
Construction Costs				600,000		600,000
Total			150,000	650,000		800,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - Storm Water Abated				650,000		650,000
Storm Water Fund			150,000			150,000
Total			150,000	650,000		800,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs				-1,000	-1,000	-2,000
Total				-1,000	-1,000	-2,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project #	STM-18-001
Project Name	SE Peterson Drive & SE Trilein Drive Storm Sewer

Description

This project will provide storm sewer improvements and limited pavement replacement to create a viable drainage outfall for the SE East Lawn Area Utility Improvements project by adding storm sewer through Sunrise Park, parallel to SE Peterson Drive, for approximately 1,000 lineal feet and upgrading approximately 300 lineal feet along SE Trilein Drive. The scope and costs for this project were previously included as part of the SE East Lawn Area Utility Improvements – Phase 1 project. The projects have been separated to expedite construction and minimize adjacent property owner and park user inconvenience. In-house Engineering Division staff will inspect this project, and construction survey will be completed by the consultant who designed the project.

Justification

Installing the storm sewer improvements will allow the SE East Lawn Area Utility Improvements project to be adequately drained. It will also reduce the amount of storm water currently draining onto SE Peterson Drive by providing capacity for additional intakes to collect SE Peterson Drive storm water upstream of the existing system. Together, these improvements will allow existing intakes along SE Peterson Drive to operate more efficiently and reduce the risk of flooding parked cars during heavy rain events.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services	25,000					25,000
Construction Costs	525,000					525,000
Total	550,000					550,000

Funding Sources	2018	2019	2020	2021	2022	Total
Storm Water Fund	550,000					550,000
Total	550,000					550,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Budget Impact/Other

The added storm sewer will reduce winter maintenance costs for the City's Public Works Department because it will allow the SE East Lawn neighborhood to be adequately drained, eliminating the ice build-up that occurs on the streets. In the long-term, the additional storm sewer infrastructure will add minor maintenance costs for the City's Municipal Utilities Department due to periodic sewer cleaning.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		-250	-500	-750	-750	-2,250
Total		-250	-500	-750	-750	-2,250

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-18-002
Project Name	Wildflower Detention Basin Improvements

Description

Improvements to address functionality, safety, sedimentation, and associated issues with the Wildflower Detention Basin. The improvements may include dredging; expanding the basin’s storage capacity; replacing the outlet structure with a staged outlet control structure; and reinforcing the dam embankment to reduce downstream risks.

Justification

The project will improve the functionality of the basin by replacing the structure which will decrease the frequency in which storm water overtops the emergency overflow. Increasing the water depth and basin footprint will also decrease the overtopping frequency. Improving the detention basin will improve the overall functionality of the City’s storm water management system. These improvements will also decrease the quantity of storm water that gets onto to private residential property and increase the aesthetics of the basin and surrounding area.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design		70,000				70,000
Construction Costs		270,000				270,000
Total		340,000				340,000

Funding Sources	2018	2019	2020	2021	2022	Total
Storm Water Fund		340,000				340,000
Total		340,000				340,000

Budget Impact/Other

Improving the detention basin will reduce the annual maintenance costs for the City because the Public Works and Parks & Recreation departments will not have to regularly clear and adjust the existing outlet structure and remove invasive vegetation.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			-500	-500	-500	-1,500
Total			-500	-500	-500	-1,500

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project #	STR-00-001
Project Name	Annual PCC Street Patching Program

Description

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

- 1/3 SE East Lawn Area Utility Improvements (3 phases): 2018 - \$30,000 (design) \$380,000 (construct); 2019 - \$30,000 (design) \$330,000 (construct); 2020 - \$360,000 (construct)
- 1/3 NW North Lawn Area Utility Improvements (4 phases): 2020 - \$42,000 (design); 2021 - \$40,000 (design) \$460,000 (construct); 2022 - \$35,000 (design) \$450,000 (construct); 2023 - \$35,000 (design) \$380,000 (construct); 2024 - \$370,000 (construct)

Justification

The Annual PCC Street Patching Program addresses the most critical, spot location street defects within the City’s street system. It is important to maintain the older streets as they deteriorate over time in order to extend their useful life. The size of the street patching project will vary annually based upon available funds remaining after accounting for the 1/3 cost-sharing on the large-scale utility and pavement replacement projects, but is assumed to be a constant \$350,000 per year for the next five years in the table below with approximately \$250,000 allocated to arterials and collectors, and \$100,000 to locals.

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	760,000	713,000	752,000	850,000	835,000	3,910,000
Total	760,000	713,000	752,000	850,000	835,000	3,910,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	760,000	713,000	752,000	850,000	835,000	3,910,000
Total	760,000	713,000	752,000	850,000	835,000	3,910,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		-12,000	-24,000	-48,000	-60,000	-144,000
Total		-12,000	-24,000	-48,000	-60,000	-144,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-00-002
Project Name	Annual Asphalt Street Resurfacing Program

Description

The Annual Asphalt Street Resurfacing Program generally has focused on the HMA overlay of old County rural roadways that are now within the City of Ankeny corporate limits. These projects are typically designed and construction administered in-house by Engineering Division staff. Specific projects for 2018 include:

- SW Weigel Drive, NW Polk City Drive to SW Camden Drive, HMA Overlay = \$170,000 (Potential cost share with Polk County, \$55,000 of \$170,000)
- NEFour Mile Drive/NE 29th Street - NE 36th Street to NE 54th Street = \$39,000

Potential future projects: NW Weigel Drive, West 1st Street to NW 5th Street, HMA overlay; SW Ordnance Road HMA overlay & shoulder inlay from SW State Street to South Ankeny Boulevard (5 Phases); SW Railroad Avenue HMA overlay of gravel street; SW Ankeny Road from State to Oralabor (HMA overlay or diamond grinding); SE Four Mile Drive from Oralabor to Magazine (possible cost share with Polk County); NW 5th Street, from Weigel to Irvinedale.

Justification

Significant progress has been made on overlaying existing asphalt rural roadways along the exterior of the City limits. Engineering Division staff has identified potential projects within the center of the City that could benefit from the annual HMA program by eliminating existing gravel streets & shoulders, including SW Ordnance Road from SW State Street to South Ankeny Boulevard (HMA overlay & HMA shoulder inlay with HMA driveways) and SW Railroad Avenue from SW Ordnance Road to SW Walnut Street (full-depth HMA conversion of existing gravel street).

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	209,000	150,000	150,000	150,000	150,000	809,000
Total	209,000	150,000	150,000	150,000	150,000	809,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
County Contributions	55,000					55,000
G.O. Bonds	154,000	150,000	150,000	150,000	150,000	754,000
Total	209,000	150,000	150,000	150,000	150,000	809,000

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		-2,000	-4,000	-6,000	-8,000	-20,000
Total		-2,000	-4,000	-6,000	-8,000	-20,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

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

Description

The annual pavement preservation program addresses the need for routine, preventative maintenance of the existing streets within Ankeny. The pavement preservation work consists of cleaning, sawing, and sealing the existing cracks and joints in the concrete streets.

Justification

This program is very important in extending the useful life and improving the aesthetics of the City's concrete streets. Public Works - Engineering Division staff will complete the design and administer construction for this program. Due to the rapidly growing amount of pavement infrastructure within the City and the continued aging of the pavement infrastructure, Public Works is requesting the annual allocation for this program be increased to \$200,000 in future years. The additional funding would allow for additional streets, particularly those that are approximately 15 to 20 years old, to receive pavement preservation treatments. It is anticipated that \$150,000 of the funding would be used for pavement joint and crack sealing, and \$50,000 of the funding would be used for pavement joint major repairs such as partial-depth repair, dowel bar retrofit, and/or joint stitching.

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	200,000	200,000	200,000	200,000	200,000	1,000,000
Total	200,000	200,000	200,000	200,000	200,000	1,000,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	200,000	200,000	200,000	200,000	200,000	1,000,000
Total	200,000	200,000	200,000	200,000	200,000	1,000,000

Budget Impact/Other

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

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		-2,000	-4,000	-6,000	-8,000	-20,000
Total		-2,000	-4,000	-6,000	-8,000	-20,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

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

Description

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

- 2018: NW Prairie Ridge Drive – from just west of NW Ash Drive to 900 ft west = \$300,000
- 2019: NW 9th Street – From NW Irvinedale Drive to NW Cedarwood Drive (Phase 1) = \$625,000
- 2020: SE 8th Street – From South Ankeny Boulevard to SE Sharon Drive (Phase 1) = \$625,000
- 2021: SE 8th Street – From South Ankeny Boulevard to SE Sharon Drive (Phase 2) = \$750,000
- 2022: NW 9th Street – From NW Irvinedale Drive to NW Cedarwood Drive (Phase 2) = \$600,000

Justification

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

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	300,000	625,000	625,000	750,000	600,000	2,900,000
Total	300,000	625,000	625,000	750,000	600,000	2,900,000

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Project Fund		200,000				200,000
G.O. Bonds			150,000	150,000	300,000	600,000
Road Use Tax Fund	300,000	425,000	475,000	600,000	300,000	2,100,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Total	300,000	625,000	625,000	750,000	600,000	2,900,000
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Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		-2,000	-8,000	-12,000	-15,000	-37,000
Total		-2,000	-8,000	-12,000	-15,000	-37,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-05-003
Project Name SE Creekview Drive Drainage and Paving Improvement

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

Culvert replacements and asphalt paving of SE Creekview Drive, an existing gravel road, from 700 feet south of East 1st Street to 4,000 feet south of East 1st Street. The typical rural section would be 28 feet wide asphalt pavement with 4 ft wide gravel shoulders. Prior to the planned asphalt paving in 2019, a separate project in 2018 would replace several large deteriorated pipe culverts under the road and upgrade the existing 8" water main to 12" diameter. The water main construction is quantified separately in the table below.

Justification

The existing gravel surface on this industrial service road requires substantial maintenance. Local businesses along the road have approached the City in the past several years requesting to have the existing road converted to a paved surface. In addition, the existing drainage structures under the road are also a maintenance issue and require replacement. Upgrading the existing water main would address the water hammer issues present at the local businesses. SE Creekview Drive would remain open to traffic throughout the duration of both projects.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services	50,000	50,000				100,000
Construction Costs	900,000	750,000				1,650,000
Legal-General/Spec. Assessment		25,000				25,000
Total	950,000	825,000				1,775,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds - TIF Abated	525,000	825,000				1,350,000
Water Revenue Bonds	425,000					425,000
Total	950,000	825,000				1,775,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Replacing the existing gravel road, deteriorated pipe culverts, and 8" water main will reduce annual maintenance costs for the City because the Public Works and Municipal Utilities departments will not have to regularly maintain the existing gravel, poor culverts, or undersized water main.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		-1,500	-15,000	-15,000	-15,000	-46,500
Total		-1,500	-15,000	-15,000	-15,000	-46,500

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

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

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

Reconstruction of the East 1st Street and Interstate 35 interchange into a diverging diamond and the widening of Interstate 35 to a 6-lane section between East 1st Street and NE 36th Street. The design services were previously budgeted for and are currently in-progress. The Iowa DOT will be funding the majority of the costs associated with the interchange reconstruction and interstate widening. Construction will occur in multiple phases in 2018, 2019, and 2020.

Justification

The Iowa DOT and the City of Ankeny have agreed that the City will fund \$2 million of the approximately \$60 million construction project, payable in three equal installments in FFY 2019, 2020, and 2021. In addition, the City will be responsible for the Division 2 items which include a 16-inch diameter water transmission main along East 1st Street in 2019, as recommended by the Water Storage and Distribution System Study and Master Plan; a joint utility trench that will encase the fiber optic conduit along East 1st Street in 2020; and street lighting along East 1st Street in 2020. The Iowa DOT acquired property from the City during 2016 for the project and will credit the City \$197,000 towards the amount owed by the City to the Iowa DOT. This amount has been deducted from the City's 2019 construction cost.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	65,000					65,000
Construction Costs		1,419,666	866,666	666,667		2,952,999
Street Lighting			200,000			200,000
Total	65,000	1,419,666	1,066,666	666,667		3,217,999

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	65,000	469,666	1,066,666	666,667		2,267,999
Water Revenue Bonds		950,000				950,000
Total	65,000	1,419,666	1,066,666	666,667		3,217,999

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs				2,500	2,500	5,000
Utilities				5,500	5,500	11,000
Total				8,000	8,000	16,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	2,550,000					2,550,000
Sewer Fund	50,000					50,000
Water Revenue Bonds	300,000					300,000
Total	2,900,000					2,900,000

Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		400	400	400	400	1,600
Utilities		900	900	900	900	3,600
Total		1,300	1,300	1,300	1,300	5,200

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Since this is for the design phase and no construction is being programmed at this time, there is not an operating impact in the near term. In the long-term, the additional pavement, 8-ft sidewalk, traffic signal, fiber optic interconnect, and public utility infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. Also, the new street lights will result in additional electric power costs for the City.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project #	STR-15-001
Project Name	Ankeny Boulevard and 1st Street Intersection

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

Paving, median, pedestrian ramp, pavement marking, and traffic signal improvements at all four approaches to the Ankeny Boulevard (U.S. Highway 69) and 1st Street intersection. A small amount of temporary construction easement (less than \$5,000) will be required, and some private and public utility relocations will also be required. Since Ankeny Boulevard (U.S. Highway 69) is a joint jurisdictional street, the proposed improvements will need to be coordinated with the Iowa DOT. Along with the traffic safety and mobility improvements, the project will provide new landscaping and irrigation in the medians on 1st Street and at each corner of the intersection.

Justification

The project will improve traffic safety and mobility at the Ankeny Boulevard and 1st Street intersection by modifying the east and west approaches to transition the through lanes and provide a single westbound left turn lane and a dedicated westbound right turn lane. Based on recent crash history, this intersection has been identified by the Iowa DOT as #1 on the statewide Safety Improvement Candidate Location (SICL) list. Due to the intersection's crash history, Public Works applied for and received \$500,000 of Traffic Safety Improvement Program (TSIP) funding through the Iowa DOT.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services	75,000					75,000
Construction Costs	775,000					775,000
Total	850,000					850,000

Funding Sources	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants	500,000					500,000
G.O. Bonds	350,000					350,000
Total	850,000					850,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

The project will replace existing pavement and traffic signal infrastructure which will reduce annual maintenance costs for the City's Public Works Department. Since the existing landscaping in the medians is difficult to maintain and the new landscaping is low maintenance, the additional landscaping maintenance costs is considered negligible. The new landscaping will result in additional maintenance costs due to normal maintenance of the new irrigation system. Irrigating the landscaped medians and intersection corners will result in additional water usage by the City during the spring and summer months.

Budget Items	2018	2019	2020	2021	2022	Total
Utilities		200	200	200	200	800
Total		200	200	200	200	800

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-16-001
Project Name	S Ankeny Blvd and SE Shurfine Dr Intersection

Description

Reconstruction of the South Ankeny Boulevard/U.S. Highway 69 and SE Shurfine Drive/SW Prairie Trail Parkway intersection to provide dedicated left turn lanes in all directions. Traffic signal improvements will also be required to accommodate the dedicated left turn lanes. No property acquisition is anticipated with this intersection improvements project. Franchise utility relocations will likely be required during 2018 in advance of the project construction. A 12” water main connection is needed for looping purposes and a 24” diameter water main is needed for connection to a future transmission main. The water main construction is quantified separately in the table below.

Justification

This project will improve traffic capacity and mobility at the South Ankeny Boulevard/U.S. Highway 69 and SE Shurfine Drive/SW Prairie Trail Parkway intersection by providing dedicated left turn lanes in all directions. This intersection is currently a tee intersection, but will be reconstructed into a four-legged intersection to support the connection of SW Prairie Trail Parkway from the west. It is anticipated that the intersection improvements would be constructed in 2019 and be completed in advance of the proposed opening of Ankeny Schools Elementary #11 in August 2020. The water main construction is included to provide a 24” diameter transmission main along the west side of South Ankeny Boulevard, in accordance with the recommendations from the 2016 Water Storage and Distribution System Study and Master Plan.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	275,000					275,000
Engineering-Construction Services		175,000				175,000
Construction Costs		2,825,000				2,825,000
Street Lighting		100,000				100,000
Total	275,000	3,100,000				3,375,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants		200,000				200,000
G.O. Bonds	275,000	2,800,000				3,075,000
Water Revenue Bonds		100,000				100,000
Total	275,000	3,100,000				3,375,000

Budget Impact/Other

The additional public street pavement and 8-ft sidewalk on SW Prairie Trail Parkway will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement, storm sewer and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City. The Iowa DOT maintains South Ankeny Boulevard/U.S. Highway 69.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			400	400	400	1,200
Utilities			2,200	2,200	2,200	6,600
Total			2,600	2,600	2,600	7,800

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

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

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Description

Extension of NW 18th Street from NW Weigel Drive west approximately 2,800 LF to NW Abbie Drive. The current gravel road with rural ditch section will be replaced with a 31 ft wide concrete street with curb and gutter. The project will also include 8 ft wide sidewalk on the south side, sanitary sewer, storm sewer, water main, street lighting, landscaping/street trees and signing.

Justification

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



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design			340,000			340,000
Engineering-Construction Services				250,000		250,000
Construction Costs				3,300,000		3,300,000
Land/ROW Acquisition			60,000			60,000
Total			400,000	3,550,000		3,950,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds			400,000	3,550,000		3,950,000
Total			400,000	3,550,000		3,950,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Replacing the existing gravel street with a new concrete street will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel for drivability and drainage reasons. The added 8 ft sidewalk will increase maintenance costs for the City due to the additional winter maintenance that will be required. In the long-term, the additional sanitary sewer, storm sewer, and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs					-9,000	-9,000
Utilities					2,000	2,000
Total					-7,000	-7,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

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

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

This project includes reconstructing the SW Oralabor Road/IA Highway 415 and SW Irvinedale Drive intersection. This project includes engineering design in 2022 and construction and engineering construction services in 2023. The majority of the construction associated with this project is paving and traffic signal improvements. Since SW Oralabor Road/IA Highway 415 is a joint jurisdictional roadway, the proposed improvements would need to be coordinated with the Iowa DOT.

Justification

The purpose of the project is to improve traffic mobility and safety at this intersection of arterial streets. This project will replace the aging traffic signal equipment and modify the configuration of the traffic lanes to achieve better traffic operations and mobility and improve safety at the intersection. An order of magnitude construction cost opinion for the intersection improvements is approximately \$2,300,000.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					210,000	210,000
Total					210,000	210,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds					210,000	210,000
Total					210,000	210,000

Budget Impact/Other

Since this is for the design phase and no construction is being programmed at this time, there is not an operating impact in the near term. In the long-term, the City's maintenance costs should not increase because no additional traffic lanes on SW Irvinedale Drive at the intersection are anticipated, and the pavement and traffic signal infrastructure will be improved. The Iowa DOT maintains SW Oralabor Road/IA Highway 415.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project #	STR-16-004
Project Name	West 1st Street Widening and Improvements-Phase 1

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

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

Justification

This project is considered the first of two phases that will reconstruct West 1st Street from just east of State Street to just west of Ankeny Boulevard. The current undivided four-lane street is inefficient and unsafe, as left turning vehicles block the inside through traffic lanes. This results in traffic backups and increased accident potential along the corridor. West 1st Street carries heavy daily traffic and the pavement requires regular patching and will approach the end of its useful life by 2020. It is anticipated that the project's construction will be completed over the course of two years due to the overall duration needed to reconstruct an urban arterial and the time constraints necessitated by maintaining traffic flowing in the vicinity of Parkview Middle School. The project is planned for 2020 and 2021 construction, with the survey and concept design occurring in late 2018 and the preliminary and final design occurring in 2019. Federal STP funding in the amount of \$1,380,000 has already been obtained through the DMAMPO. It is anticipated that the City will apply for additional Federal funding with the next round of applications.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	100,000	550,000				650,000
Engineering-Construction Services			200,000	200,000		400,000
Construction Costs			2,650,000	2,650,000		5,300,000
Street Lighting			50,000	50,000		100,000
Land/ROW Acquisition		50,000				50,000
Total	100,000	600,000	2,900,000	2,900,000		6,500,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds	100,000	600,000	2,150,000	1,570,000		4,420,000
MPO/STP Grants			750,000	1,330,000		2,080,000
Total	100,000	600,000	2,900,000	2,900,000		6,500,000

Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the mid-term and long-term, replacing the existing street and existing traffic signals will reduce annual maintenance costs for the City because the Public Works Department will have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement or maintain outdated traffic signal equipment. The new street lights will result in additional electric power costs for the City.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs				350	700	1,050
Utilities				1,200	2,400	3,600
Total				1,550	3,100	4,650

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-18-001
Project Name	North Ankeny Boulevard Landscaping Improvements

Description

Remove existing landscaping in the medians on North Ankeny Boulevard/U.S. Highway 69 from north of 1st Street to 18th Street and replace with turfgrass and low maintenance landscaping and plantings. The proposed improvements also include landscaping and minor streetscaping at the North Ankeny Boulevard and 5th Street, 9th Street, 11th Street, and 18th Street intersections. Since North Ankeny Boulevard/U.S. Highway 69 is a joint jurisdictional street, the proposed landscaping improvements would need to be coordinated with the Iowa DOT.

Justification

An action item for Public Works from the 2016 Strategic Planning process was to develop concepts for improving the landscaping in the City's rights-of-way and medians. The purpose of this project is to improve the landscaping, sustainability, and aesthetics within the public right-of-way of North Ankeny Boulevard. The existing landscaping in the medians is in poor condition, visually unappealing, and is difficult to maintain. The proposed landscaping improvements concept and associated costs were presented to the City Council at a work session on 10/16/17. The proposed concept has also been reviewed with the Iowa DOT, and they were accepting of the improvements.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design			120,000			120,000
Engineering-Construction Services				20,000		20,000
Construction Costs			350,000	350,000		700,000
Total			470,000	370,000		840,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds			235,000	185,000		420,000
Hotel/Motel Tax Fund			235,000	185,000		420,000
Total			470,000	370,000		840,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Since the existing landscaping in the medians is difficult to maintain, and the proposed landscaping is low maintenance, the additional maintenance cost for Operations staff is considered negligible. The proposed landscaping will result in additional maintenance costs due to mowing the new turfgrass areas in the medians and normal maintenance of the new irrigation system. Irrigating the landscaped medians and intersection corners will result in additional water usage by the City during the spring and summer months.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs				750	1,500	2,250
Utilities				500	1,000	1,500
Total				1,250	2,500	3,750

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-18-002
Project Name	NW 36th St and NW Ash Dr Interim Improvements

Description

Interim improvements at the intersection of NW 36th Street and NW Ash Drive to include the installation of a traffic signal on span wires and the widening of NW 36th Street to accommodate dedicated left turn lanes.

Justification

The continued growth on the City's northwest side, specifically at the Piper Properties development located south of NW 36th Street between NW Ash Drive and North Ankeny Boulevard, will likely require a traffic signal at the NW 36th Street and NW Ash Drive intersection along with dedicated left turn lanes on NW 36th Street within the next five years. The proposed project is considered an interim improvement until the NW 36th Street corridor is widened to a four-lane divided arterial street and a permanent traffic signal is installed.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					25,000	25,000
Total					25,000	25,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds					25,000	25,000
Total					25,000	25,000

Budget Impact/Other

Since this is for the design phase and no construction is being programmed at this time, there is not an operating impact in the near-term. In the long-term, the additional pavement and traffic signal infrastructure will add more annual maintenance costs for the City's Public Works Department. Also, the new traffic signal will result in additional power costs for the City.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

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

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

The reconstruction of NW 36th Street, an existing two-lane rural roadway, from NW Irvinedale Drive to NW Abilene Road. The project includes the removal of the existing asphalt roadway and construction of a two-lane PCC urban street. Storm sewer improvements are included. Sanitary sewer and water main are assumed to be constructed with pending future development along the corridor in advance of the roadway reconstruction. Traffic signals at NW 36th Street and NW Irvinedale Drive are not included with this project.

Justification

It is anticipated that traffic volumes will drive the need to reconstruct NW 36th Street from NW Irvinedale Drive to NW Abilene Road within the next five years. This segment of NW 36th Street received an asphalt overlay in 2015; however, traffic is expected to continue to increase due to Rock Creek Elementary and adjacent current and future development, which will likely advance the deterioration of the existing asphalt rural roadway. Design is planned for 2023 with construction planned for 2024. It is anticipated that the topographic survey and base mapping would be completed in Fall 2022 in an effort to facilitate the project schedule.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					25,000	25,000
Total					25,000	25,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds					25,000	25,000
Total					25,000	25,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Since this is for the survey phase and no construction is being programmed at this time, there is not an operating impact in the near-term. In the long-term, replacing the existing asphalt roadway with a concrete street will reduce annual maintenance costs for the City because the Public Works Department will not have to do pavement preservation on the existing asphalt. The additional storm sewer infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments, and the new street lights will result in additional power costs for the City.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

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

Type New Construction

Useful Life 40 years

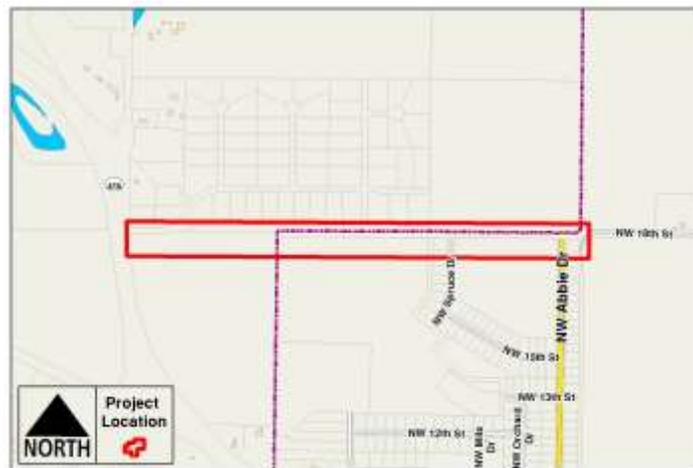
Category Streets and Alleys

Description

Extension of NW 18th Street from NW Abbie Drive west approximately 3,700 linear feet to IA Highway 415. This new roadway alignment will connect the proposed extension of NW 18th Street from NW Weigel Drive to NW Abbie Drive west to IA Highway 415. It is proposed to be a 31 ft wide concrete street with curb and gutter. The project will also include 8 ft wide sidewalk on the south side, sanitary sewer, storm sewer, water main, street lighting, landscaping/street trees, and signing.

Justification

This street extension will improve traffic mobility and support the current and anticipated future development in the northwest quadrant of Ankeny. The west portion of this project, where it ties into IA Highway 415, is currently outside the existing City limits. An order of magnitude construction cost opinion for the project is approximately \$4,900,000.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					330,000	330,000
Land/ROW Acquisition					130,000	130,000
Total					460,000	460,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds					460,000	460,000
Total					460,000	460,000

Budget Impact/Other

Since this is for the design phase and no construction is being programmed at this time, there is not an operating impact in the near term. In the long-term, the additional pavement, 8-ft sidewalk, sanitary sewer, storm sewer, and water main will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. Also, the new street lights will result in additional electric power costs for the City.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

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

Description

Complete a concept study and design for potential access improvements to the existing parking lot in the north part of the Prairie Ridge Sports Complex (PRSC). The parking lot has approximately 700 spaces but only one access along NW 18th Street.

Justification

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



Expenditures	2018	2019	2020	2021	2022	Total
Consultant				20,000		20,000
Engineering-Design					100,000	100,000
Total				20,000	100,000	120,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds				20,000	100,000	120,000
Total				20,000	100,000	120,000

Budget Impact/Other

Since this is for the study and design phases and no construction is being programmed at this time, there is not an operating impact.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 10 years

Category Streets and Alleys

Project # STR-18-006

Project Name S Ankeny Blvd and SW Oralabor Rd Safety Studies

Description

Complete traffic safety and concept studies, develop concept alternative(s), and prepare a conceptual opinion of probable cost for potential geometric and/or traffic signal improvements at the following intersections: 1) South Ankeny Boulevard and SE Magazine Road; 2) South Ankeny Boulevard and SE 3rd Street; 3) SW Oralabor Road and SW State Street; and 4) South Ankeny Boulevard and Oralabor Road. The intent is to study intersections #1 and #2 in 2018 and #3 and #4 in 2019.

Justification

The purpose of the project is to determine whether traffic safety can be improved at the four intersections. In the Iowa DOT's most current Statewide Intersection Improvement Candidate Location (SICL) list, the South Ankeny Boulevard and SE Magazine Road (#8 ranking), South Ankeny Boulevard and SE 3rd Street (#10), SW Oralabor Road and on SW State Street (#12), and South Ankeny Boulevard and Oralabor Road (#27) intersections are all ranked very high. The SICL list is based upon crash severity, crash rate, and crash frequency. Traffic volumes will continue to increase at these intersections due to the rapid population growth and on-going development occurring in Ankeny. If the studies show geometric and/or traffic signal improvements would be beneficial for improving safety at the intersections, Public Works staff will consider programming the design and construction phases for future years.

Expenditures	2018	2019	2020	2021	2022	Total
Consultant	40,000	45,000				85,000
Total	40,000	45,000				85,000

Funding Sources	2018	2019	2020	2021	2022	Total
Road Use Tax Fund	40,000	45,000				85,000
Total	40,000	45,000				85,000

Budget Impact/Other

Since these are studies and no construction is being programmed at this time, there is not an operating impact.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-007
Project Name SE Hulsizer Road Realignment

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

Realign SE Hulsizer Road from SE Oralabor Road north to approximately 400 ft south of SE Dalbey Drive. The new street would be located between the Perkins and Olive Garden restaurants, and it would connect with SE Oralabor Road directly across from NE 19th Lane. The proposed project includes public utility improvements, new sidewalks, and adding a traffic signal at the realigned SE Hulsizer Road/NE 19th Lane and SE Oralabor Road intersection. Since SE Oralabor Road/IA Highway 160 is a joint jurisdictional street, the proposed intersection improvements would need to be coordinated with the Iowa DOT.

Justification

The purpose of the project is to improve traffic mobility and safety for vehicles (including semi-trailer trucks) that use SE Hulsizer Road and its intersection with SE Oralabor Road. Connecting SE Hulsizer Road to SE Oralabor Road directly across from NE 19th Lane will provide adequate spacing from the adjacent signalized intersections so that a traffic signal could be added at the new intersection. The street realignment would also provide for more economic development opportunities for the properties and businesses north of SE Oralabor Road and west of SE Hulsizer Road. The City's Economic Development Department has submitted a Revitalize Iowa's Sound Economy (RISE) funding application to the Iowa DOT for the project.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design		175,000				175,000
Engineering-Construction Services			175,000			175,000
Construction Costs			1,950,000			1,950,000
Land/ROW Acquisition		150,000				150,000
Total		325,000	2,125,000			2,450,000

Funding Sources	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants			651,000			651,000
G.O. Bonds - TIF Abated		325,000	1,474,000			1,799,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Total	325,000	2,125,000	2,450,000
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Budget Impact/Other

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

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs			700	700	700	2,100
Utilities			1,500	1,500	1,500	4,500
Total			2,200	2,200	2,200	6,600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project #	STR-18-008
Project Name	SW Oralabor Road and DMACC Intersection

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Description

Pavement widening, median, pedestrian ramp, pavement marking, and traffic signal improvements at the SW Oralabor Road/IA Highway 160 and DMACC Boulevard/SW Highpointe Drive intersection to allow for dual left turn lanes on eastbound SW Oralabor Road at the intersection. Since SW Oralabor Road/IA Highway 160 is a joint jurisdictional roadway, the proposed improvements would need to be coordinated with the Iowa DOT.

Justification

The purpose of the project is to improve mobility and reduce delays for eastbound traffic on SW Oralabor Road at the DMACC Boulevard intersection. DMACC’s 2016 traffic study did not identify an immediate need for the proposed intersection improvements; however, traffic volumes on SW Oralabor Road and at the intersection continue to increase. The proposed project is a high priority for DMACC, and they have discussed it with the Iowa DOT and City staff. The Iowa DOT stated they would contribute funding for the project’s construction. The conceptual construction cost opinion for the intersection improvements is approximately \$800,000.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					100,000	100,000
Total					100,000	100,000

Funding Sources	2018	2019	2020	2021	2022	Total
G.O. Bonds					50,000	50,000
Private Contributions					50,000	50,000
Total					100,000	100,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Since this is for the design phase and no construction is being programmed at this time, there is not an operating impact in the near term. In the long-term, the City's maintenance costs should not increase because no additional traffic lanes on DMACC Boulevard or SW Highpointe Drive at the intersection are being proposed, and the traffic signal infrastructure will be improved. The Iowa DOT maintains SW Oralabor Road/IA Highway 160.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-18-009

Project Name SE Convenience Boulevard Extension

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Description

The construction of a 31-foot wide PCC concrete street from the current terminus of SE Convenience Boulevard located to the north of SE Corporate Woods Drive. The new street will extend an additional 1,220 feet north onto the Ankeny Regional Airport to serve 16 acres of non-aeronautical property at the far southwest corner of the airport. The scope of the project includes water main, sanitary sewer, lighting, and subdrains.

Justification

This project will allow the Polk County Aviation Authority (PCAA) to sell 16 acres of non-aeronautical property as mixed-use industrial property. It will also provide access to two lots within the Corporate Woods Business Park and the future south terminal area. The PCAA was granted an Iowa DOT RISE grant to partially fund this project. The balance of the project will be funded by the PCAA. It is being included in the City of Ankeny CIP since the Iowa DOT requires that RISE projects be completed by a municipality. All funding for design, construction, platting, etc. will be initially paid by the City, with full reimbursement by the PCAA.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	128,000					128,000
Construction Costs	935,000					935,000
Street Lighting	56,000					56,000
Land/ROW Acquisition	25,000					25,000
Total	1,144,000					1,144,000

Funding Sources	2018	2019	2020	2021	2022	Total
FHWA/IDOT Grants	435,000					435,000
Private Contributions	709,000					709,000
Total	1,144,000					1,144,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Budget Impact/Other

Upon completion, the new street will be the City's responsibility to maintain. Additional street cleaning, snow plowing and street lighting will be required. Sanitary sewer, storm sewer, subdrain and water main extensions will also be added to the City system.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs		700	700	700	700	2,800
Utilities		900	900	900	900	3,600
Total		1,600	1,600	1,600	1,600	6,400

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Traffic Control

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

Description
Proposed Locations of New Traffic Signals: 2018 – West 1st Street & IA Highway 415 Signal (\$360,000; cost share with Polk County and DOT) 2018 – NE Delaware Avenue & NE 18th Street Pedestrian Signal Modifications (\$50,000) 2018 – Fiber Optic Conduit Connection between New Library and Police Station (\$125,000) 2018 – Interstate 35 & SE Corporate Woods Drive SB Ramp Signal (\$290,000; potential cost share with DOT) 2018 to 2019 – SW State Street & SW Prairie Trail Parkway (\$600,000; design in 2018 & construct in 2019) 2020 to 2022 – Traffic Signal Projects To Be Determined (\$350,000) Potential Future Projects: Georgetown & U.S. Highway 69; SW Ordnance Road & SW Cherry Street; SW Oralabor Road & SW Westwinds Boulevard/SW Glenbrooke Boulevard; SE Delaware Avenue & SE 8th Street; SW State Street & SW Plaza Parkway; West 1st Street & NW/SW Linden Street; NE Delaware Avenue & NE 5th Street; Fiber Optic Connection along SE Delaware Avenue from SE Magazine Road to East 1st Street; NW 36th Street & NW Ash Drive; NW 36th Street & NW State Street; NW 36th Street & NW Irvinedale Drive; High Trestle Trail crossing at NW State Street (HAWK or RRFB); NW 18th Street & Prairie Ridge Sports Complex Entrance; Additional Fiber Optic projects for Redundancy; SE Delaware Avenue & SE 54th Street (Cost Share with Developer); North Ankeny Boulevard & NE 47th Street.

Justification
The City currently has 71 traffic signals, including flashing speed limit beacons and pedestrian crossing signals. An effective and efficient traffic signal system improves traffic safety and mobility, reduces energy costs and enhances the quality of life for residents. The proposed locations of traffic signals shown above are reviewed annually and planning level costs are used. There is potential to obtain federal and/or state funding for signals proposed at intersections with state highways.

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	875,000	550,000	350,000	350,000	350,000	2,475,000
Total	875,000	550,000	350,000	350,000	350,000	2,475,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Funding Sources	2018	2019	2020	2021	2022	Total
Capital Project Fund	150,000	50,000				200,000
County Contributions	100,000					100,000
FHWA/IDOT Grants	335,000					335,000
G.O. Bonds	290,000		350,000	350,000	350,000	1,340,000
Road Use Tax Fund		500,000				500,000
Total	875,000	550,000	350,000	350,000	350,000	2,475,000

Budget Impact/Other

In the long-term, the additional traffic signal infrastructure will add annual maintenance costs for the City's Public Works Department. The new traffic signals will result in additional electric power costs for the City.

Budget Items	2018	2019	2020	2021	2022	Total
Utilities	300	750	1,100	1,400	1,700	5,250
Total	300	750	1,100	1,400	1,700	5,250

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	WTM-00-001
Project Name	Annual Water Main Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of water utility infrastructure. Specific projects for 2018 to 2022 include the following:

- Development water main over-sizing: 2018 to 2022 – \$70,000/year (Except \$90,000 in 2018)
- I/3 SE Eastlawn Area Utility Improvements (3 phases): 2018 – \$30,000 (design) \$380,000 (construct); 2019 – \$30,000 (design) \$333,000 (construct); 2020 – \$360,000 (construct)
- SW 3rd Street (Maple to Scott) Water Main Improvements, 2018 – \$400,000
- SE 8th Street (Sharon to Ankeny Boulevard) Water Main Improvements (2 phases), 2020 - \$140,000; 2021 \$215,000
- I/3 NW Northlawn Area Utility Improvements (4 phases): 2020 - \$42,000 (design); 2021 - \$40,000 (design) \$460,000 (construct); 2022 - \$35,000 (design) \$450,000 (construct); 2023 - \$35,000 (design) \$380,000 (construct); 2024 - \$370,000 (construct)

Justification

The water mains 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. Municipal Utilities staff will be used for the design and construction observation whenever possible; however, the full reconstruction and utility replacement projects (SE Eastlawn, NW Northlawn, SW 3rd Street, and W 1st Street) anticipate the use of a consulting engineer for design.

Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	900,000	433,000	612,000	785,000	555,000	3,285,000
Total	900,000	433,000	612,000	785,000	555,000	3,285,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Fund	900,000	433,000	612,000	785,000	555,000	3,285,000
Total	900,000	433,000	612,000	785,000	555,000	3,285,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project # WTM-15-002
Project Name Ash Tower Transmission Main

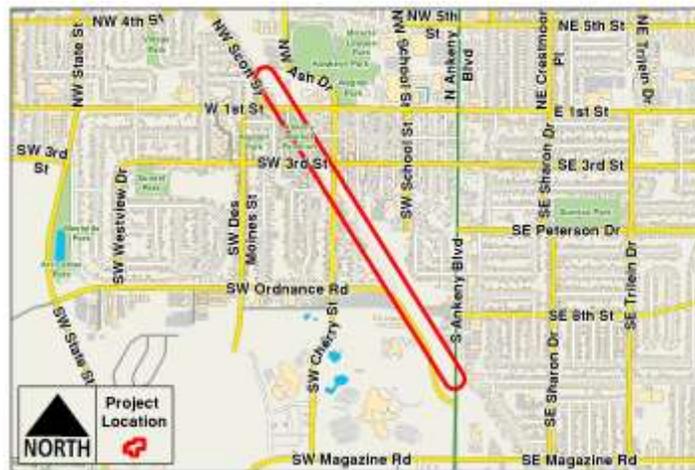
Type New Construction
Useful Life 40 years
Category Water Mains

Description

This is the construction year of this project, as the design was completed in 2017. This project consists of approximately 6,500 LF of 24” transmission water main along the abandoned railroad grade from south of SE Magazine Road/North Ankeny Boulevard intersection to the Ash Water Tower.

Justification

The purpose of this project is to increase water conveyance to and from the Ash Water Tower via the existing 24” and 16” transmission mains along South Ankeny Boulevard. This will alleviate an area of high head loss and high velocity pipes in the East pressure zone, improve the performance and operation of the overall water storage and distribution system, and eventually allow the Southwest and East pressure zones to be combined into one zone.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services	150,000					150,000
Construction Costs	1,950,000					1,950,000
Total	2,100,000					2,100,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds	2,100,000					2,100,000
Total	2,100,000					2,100,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

lowering electrical costs because of less amp draw. Approximately 200 staff hours will be needed for de-chlorinating, pressure testing, operating valves, and locating services. It will take over IMG to fill and flush the new main and fill Ash Tower. Very close coordination between the contractor, City staff, and DMWW will be required to make the tower connection. Some benefits may be realized if we could coordinate the tower painting and the 24" transmission main connection at the base of the tower to reduce the number of system shut downs.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	9,000					9,000
Utilities	2,000					2,000
Total	11,000					11,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project #	WTM-15-003
Project Name	NW Booster Station

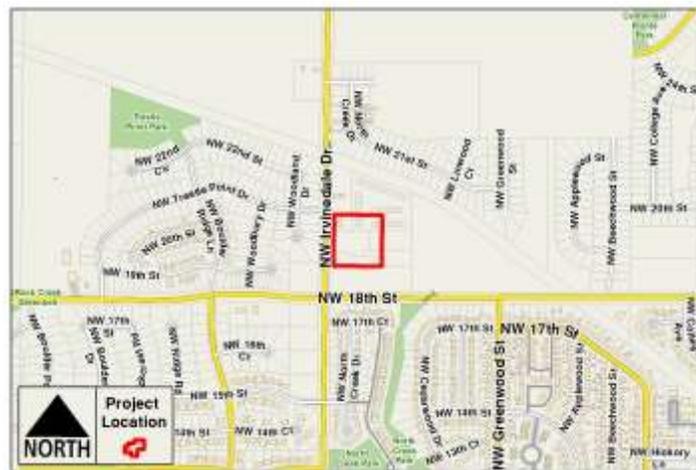
Type New Construction
Useful Life 40 years
Category Water Mains

Description

This is the second year of a two year project to construct a water booster station near the intersection of NW Irvinedale Drive and the High Trestle Trail with emergency power and connections to existing 12” suction and discharge mains. This phase of the project includes easements and construction of a building that will contain the four pumps with space for a fifth, generator, restroom facility, electrical controls and automatic transfer switch, and space for chemical storage and addition. One pump at 0.58 million gallons per day (MGD), one pump at 1.30 MGD, and two pumps at 1.44 MGD for a total of 4.75 MGD with 3.31 MGD firm with approximately 1,500 feet of 24” main to connect the two existing 12” suction and discharge mains to the new pump station. The project will allow for expansion of one additional pump and replacement of the smaller pumps with larger pumps as demand increases. Ultimate build out will have five pumps at 2.02 MGD for a capacity of 10.10 MGD with 8.08 MGD firm. Included on this sheet is the remaining cleanup of the existing site to get it ready for construction in early 2018.

Justification

The purpose of this project is to supply water to the northwest area of the City with adequate volume and pressure for domestic use and fire protection. The Des Moines Water Works have told us they will no longer be able to supply water to this area of town because of increased demands from Polk County and Polk City residents. This is the first of several near-term projects that will allow the City to eliminate its connection to the existing 16” Polk City Feeder Main at NW 5th Street. The associated transmission mains will also improve flows such that the City will be able to combine the East and Southwest pressure zones into one zone, thereby eliminating operational deficiencies.



2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Funding Sources	2018	2019	2020	2021	2022	Total
Water Fund	600,000					600,000
Water Revenue Bonds	2,222,000					2,222,000
Total	2,822,000					2,822,000

Budget Impact/Other

The operating impact of this project will consist primarily of routine operation and maintenance of the pumps and other equipment within the facility and utility costs. Our cost assumptions include an average of water used by other pumping stations in town or about 150,000 gallons of water annually. The electric costs average about \$25,000 for those same facilities. We assume an hour to an hour and a half of staff time per day to maintain and operate this new facility. The first year would only be the last few months as it won't be in operation until late fall or early winter.

Budget Items	2018	2019	2020	2021	2022	Total
Maintenance Costs	25	100	100	100	100	425
Personnel Costs	6,000	23,000	24,000	25,000	26,000	104,000
Utilities	6,000	25,000	25,000	25,000	25,000	106,000
Total	12,025	48,100	49,100	50,100	51,100	210,425

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Budget Impact/Other

This is a new transmission main, it is not a replacement. Based on the HDR model, we will no longer have to throttle flows from DMWW to fill or drain the SW Tower now that we will have a looped 24" transmission main. Both towers should operate as one and we will only have two pressure zones including the normal city pressure we have always had and the boosted pressure in the northwest part of town. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during design and engineering. It will take almost 1,000,000 gallons to fill and flush the new main.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs				7,500	4,500	12,000
Utilities					2,000	2,000
Total				7,500	6,500	14,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project # WTM-17-003
Project Name SE Magazine Road Water Main Improvements

Type New Construction
Useful Life 40 years
Category Water Mains

Description

Approximately 2,200 LF of 16” water main extension on SE Magazine Road from just east of South Ankeny Boulevard to SE Trilein Drive. This project will eliminate a gap in the transmission/distribution water main in this area of the City. The use of trenchless construction for the water main will be used for this project to reduce disruption of existing driveways and other utilities in the area. There will also be a new water main connection from the 16” main on the east side of Ankeny Boulevard to the new proposed 24” main installed on the west side of Ankeny Boulevard with the Ash Tower Transmission Main.

Justification

The purpose of this project is to provide looping for the City’s East Water Pressure Zone. This project will also improve the fire flows within the area and ease the filling and discharging of water at the Magazine Pump Station and storage tank. Having a larger water main in this location will reduce the wear and tear of the pumps at the Magazine Pump Station.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Construction Services		80,000				80,000
Construction Costs		825,000				825,000
Land/ROW Acquisition		25,000				25,000
Total		930,000				930,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds		930,000				930,000
Total		930,000				930,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

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. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 120,000 gallons to fill and flush the new main.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs		4,500				4,500
Utilities		300				300
Total		4,800				4,800

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project # WTM-17-004
Project Name SW Irvinedale Drive Transmission Main-Phase 1

Type New Construction
Useful Life 40 years
Category Water Mains

Description

Approximately 6,800 LF of 24” transmission water main along SW Oralabor Road and SW Irvinedale Drive to connect the existing 24” main at the SW Edgewood Lane and SW Oralabor Road intersection to the SW Water Tower. This first year will be designing, engineering, easement acquisition, and administration and construction will be in 2019.

Justification

The purpose of this project is to increase water conveyance from DMWW’s Saylorville Water Treatment Plant north along NW 26th Street, east along SW Oralabor Road and then north along SW Irvinedale Drive to the SW Tower. This is the first of three phases that will eventually connect to the NW Booster Station that will supply water to the entire northwest part of Ankeny.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design	225,000					225,000
Engineering-Construction Services		200,000				200,000
Construction Costs		2,800,000				2,800,000
Total	225,000	3,000,000				3,225,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds	225,000	3,000,000				3,225,000
Total	225,000	3,000,000				3,225,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won’t have to work at higher internal pressures, reducing wear and tear and possibly

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

lowering electrical costs because of less amp draw. Approximately 200 staff hours will be needed to fill and drain the tower, de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during design and engineering. It will take almost 3MG to fill and flush the new main and fill SW Tower. Very close coordination between the contractor, City staff, and DMWW will be required to make the tower connection. Install two 24" valves at the cross at the base of the tower when the tower is shut down to avoid another shutdown with the second phase.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	7,500	9,000				16,500
Utilities		6,000				6,000
Total	7,500	15,000				22,500

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project # WTM-17-005
Project Name NW State Street Water Main Improvements

Type Improvement
Useful Life 40 years
Category Water Mains

Description

Approximately 300 LF of 12” distribution water main on the west side of NW State Street from NW 9th Street to NW 10th Street. There is an existing 6” water main in this section that needs to be upsized.

Justification

The purpose of this project is to extend the 12” distribution water main along NW State Street south to NW 9th Street in order to remove a bottleneck during high water demand periods and improve fire flows northwest of this location.



Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs		90,000				90,000
Total		90,000				90,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds		90,000				90,000
Total		90,000				90,000

Budget Impact/Other

This project was included in the 2016 Water Study Master Plan and the operating impact will have negligible cost implications as it will mostly help the fire flows in the area. There will be approximately 50 hours of staff time during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will also take about 9,000 gallons to fill and flush the new main.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs		3,000				3,000
Utilities		50				50

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Total	3,050	3,050
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2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Project # WTM-17-006
Project Name SW Irvinedale Drive Transmission Main-Phase 2

Type New Construction
Useful Life 40 years
Category Water Mains

Description

Approximately 7,400 LF of 24” transmission water main north along SW Irvinedale Drive from the SW Water Tower to approximately 500 feet north of West 1st Street connecting both ends to existing 24” mains. This first year will be designing, engineering, easement acquisition, and administration with construction to follow in 2020.

Justification

The purpose of this project is to increase water conveyance from the SW Water Tower north along SW Irvinedale Drive to West 1st Street. This is the second of three (3) phases that will eventually connect to the NW Booster Station that will supply water to the entire northwest part of Ankeny. The completion of this phase will improve the performance and operation of the overall water storage and distribution system to a point that we may be able to bypass the control valves at SW Oralabor Road and Franklin Drive and allow the East and Southwest pressure zones to operate as one.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design		250,000				250,000
Engineering-Construction Services			250,000			250,000
Construction Costs			3,200,000			3,200,000
Total		250,000	3,450,000			3,700,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds		250,000	3,450,000			3,700,000
Total		250,000	3,450,000			3,700,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during the design phase. It will take almost 600,000 gallons to fill and flush the new main. If the phasing was done right we can avoid another tower shut down and save on personnel and water costs.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs		7,500	4,500			12,000
Utilities			1,200			1,200
Total		7,500	5,700			13,200

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description

Approximately 3,900 LF of 24” transmission water main along NW Irvinedale Drive from NW 9th Street north to NW 18th Street. Connecting both ends to existing 24” mains. This first year will be designing, engineering, easement acquisition, and administration with construction to follow in 2021.

Justification

The purpose of this project is to increase water conveyance from the SW Water Tower north along SW & NW Irvinedale Drive to the NW Booster Station. This is the third and final of three phases that connects the NW Booster Station to the water supply from DMWW Saylorville Water Treatment Plant. The completion of this phase will improve the performance and operation of the overall water storage and distribution system to a point that we will no longer need the DMWW connection at NW 5th Street and NW Weigel Drive.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design			140,000			140,000
Engineering-Construction Services				140,000		140,000
Construction Costs				1,855,000		1,855,000
Total			140,000	1,995,000		2,135,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds			140,000	1,995,000		2,135,000
Total			140,000	1,995,000		2,135,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 100 hours of staff time will be needed during design and engineering. It will take almost 300,000 gallons to fill and flush the new main.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs			7,500	4,500		12,000
Utilities				600		600
Total			7,500	5,100		12,600

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

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	Purchase Capacity in Saylorville Feeder Main

Description
 Purchase the remaining capacity in the Saylorville WTP 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.

Justification
 The purpose of this purchase is to provide additional transmission pipe capacity to support future water needs in the City. DMWW has requested that the City purchase the additional pipe capacity in 2018, so DMWW can use the revenue to construct a new feeder main to Polk City. The actual timing for purchasing the additional pipe capacity will need to be discussed further with DMWW.

Expenditures	2018	2019	2020	2021	2022	Total
Legal-General/Spec. Assessment				100,000		100,000
Other Costs				700,000		700,000
Total				800,000		800,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds				800,000		800,000
Total				800,000		800,000

Budget Impact/Other
 Additional source capacity for future growth and water demands.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project # WTM-17-009
Project Name NW Tower Transmission Main

Description

Complete the 24" transmission water main along NW Irvinedale Drive from the NW Booster Station to the future NW Water Tower site, which is anticipated to be located near NW 36th Street. Several sections may be designed and installed by developers and cost shared ahead of this project being constructed. A siting study to determine alternatives and the preferred location for the future NW Water Tower would likely be included ahead of the planning and design of this project. (See Concept & Site Study for Future NW Tower Form.)

Justification

The purpose of this project is to supply water to the future NW Water Tower. The end result is that the NW Pressure Zone will operate from the NW Tower elevation with a gradient of 1140 and not via pressure sensors at the lift station. This will provide more reliable water pressure and flows in that zone.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design				150,000		150,000
Engineering-Construction Services					125,000	125,000
Construction Costs					1,825,000	1,825,000
Total				150,000	1,950,000	2,100,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds				150,000	1,950,000	2,100,000
Total				150,000	1,950,000	2,100,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Budget Impact/Other

This is a new transmission main, it is not a replacement. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Less friction loss in larger pipes means pumps won't have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs because of less amp draw. Because this transmission main is going to have a large section of large diameter dead end, it will require more flushing until the tower is constructed and connected. Depending on how much of the main has been installed, staff hours will vary for de-chlorinating, pressure testing, operating valves, and locating services. Additionally, some amount of staff time will be needed during design and engineering. The amount of water to fill and flush the new main will also depend on how much pipe is in this phase.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs				7,500	8,500	16,000
Utilities					800	800
Total				7,500	9,300	16,800

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

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

Description
 Complete the section of 24” transmission main approximately 5,300 LF along South Ankeny Boulevard from SW Magazine Road south to the existing 24” north of SE Oralabor Road. This section of transmission main will complete the line from our Polk County meter pit to the Ash Tower and the rest of our transmission network.

Justification
 This is the last section of 24” transmission main to loop both of our 24” connections to DMWW source water. This connects all of our water towers and the NW Booster station with redundant source water. This allows us to have non-interrupted source water if any of the pump stations or transmission mains are out of service. The construction estimate for 2023 is \$2,750,000.

Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					250,000	250,000
Total					250,000	250,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds					250,000	250,000
Total					250,000	250,000

Budget Impact/Other
 This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 50 hours of staff time will be needed during design and engineering. It will take almost 600,000 gallons to fill and flush the new main.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs					4,500	4,500
Utilities					1,200	1,200
Total					5,700	5,700

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	WTM-18-002
Project Name	Trestle Ridge Estates 24" Water Main

Description

The Trestle Ridge Estates 24" Water Main project will include the installation of approximately 1,300 LF of 24" water main on the west side of NW Irvinedale Drive north of the High Trestle Trail.

Justification

The Trestle Ridge Estates 24" Water Main project will fund the cost share for oversizing water main with the development of Trestle Ridge Estates by Diamond Development, LLC. The 24" water main was identified in the water study as a necessity for connection from the proposed NW Booster Station to a future water tower north of NW 36th Street to be constructed in 2022. There is a cost incurred by cost sharing this project with the developer, but the savings in the long run will outweigh the costs incurred now.



Expenditures	2018	2019	2020	2021	2022	Total
Construction Costs	130,000					130,000
Total	130,000					130,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds	130,000					130,000
Total	130,000					130,000

Budget Impact/Other

Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves, and locating services. Additionally 50 hours of staff time will be needed during the engineering design phase for questions and plan review. It will also need about 160,000 gallons of water to fill and flush the new main.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	8,250					8,250
Utilities	350					350

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Total	8,600	8,600
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2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

needed during the project for de-chlorinating and pressure testing. About 1,000,000 gallons of water to fill and flush the tower at the completion of the project.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	4,500					4,500
Utilities	2,000					2,000
Total	6,500					6,500

2018 - 2022 Capital Improvement Program

2018 thru 2022

City of Ankeny, Iowa

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

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

Description
 Complete a siting study to determine alternatives and the preferred location for a new 1.5 MGD Aquifer Storage and Recovery (ASR) and 16" water main for connecting it to the distribution system. The project will also include land acquisition (if necessary), design and construction of the ASR and water main connection.

Justification
 The purpose of this project is to replace the existing ASR #1 on SW Elm Street, because additional supply capacity is needed to meet high water demand periods and existing ASR #1 is reaching the end of its useful life. The estimated land acquisition and construction cost for the new ASR and water transmission main is \$3,750,000 in 2022.

Expenditures	2018	2019	2020	2021	2022	Total
Consultant				100,000		100,000
Engineering-Design				150,000		150,000
Engineering-Construction Services					250,000	250,000
Construction Costs					2,400,000	2,400,000
Vehicle/Equipment					750,000	750,000
Land/ROW Acquisition					350,000	350,000
Total				250,000	3,750,000	4,000,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds				250,000	3,750,000	4,000,000
Total				250,000	3,750,000	4,000,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Budget Impact/Other

Since this is a replacement of an existing facility, the O&M cost should remain near current levels if not slightly less based on age of equipment. The siting study may require administrative staff time, working with the consultant on available parcels either City owned or ones available to purchase. The design phase will require staff review. Connecting to the existing water distribution system will require field staff to operate valves and coordinate testing of new mains. Until a site is chosen and we know how much main is being installed, we won't be able estimate financial impacts.

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

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

Project #	WTT-18-001
Project Name	Concept & Site Study for Future NW Water Tower

Description

Revisit the Joint Water System Study with the appropriate agencies to determine if the future NW Water Tower will be a joint tower servicing the northwest portion of Ankeny and the surrounding communities or just for the City of Ankeny. The next step would be to complete a site study for a location for this tower followed by the purchase of said property. The following year will be design followed by construction the year after.

Justification

The purpose of this project would be to identify if the future water tower would be a joint venture or one that is pursued by the City of Ankeny alone. Depending on that outcome, there would need to be an establishment of what portions of previous projects would need to be prorated to share the cost of the joint venture. If it were just for the City, all costs associated would be our responsibility and we can continue on through the process of selecting a site for the tower, followed by design and construction. Using the 2016 Water System Master Plan a tower for just the City would cost an estimated \$8.24 million dollars.



Expenditures	2018	2019	2020	2021	2022	Total
Engineering-Design					250,000	250,000
Land/ROW Acquisition	375,000					375,000
Total	375,000				250,000	625,000

Funding Sources	2018	2019	2020	2021	2022	Total
Water Revenue Bonds	375,000				250,000	625,000
Total	375,000				250,000	625,000

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Water Utility

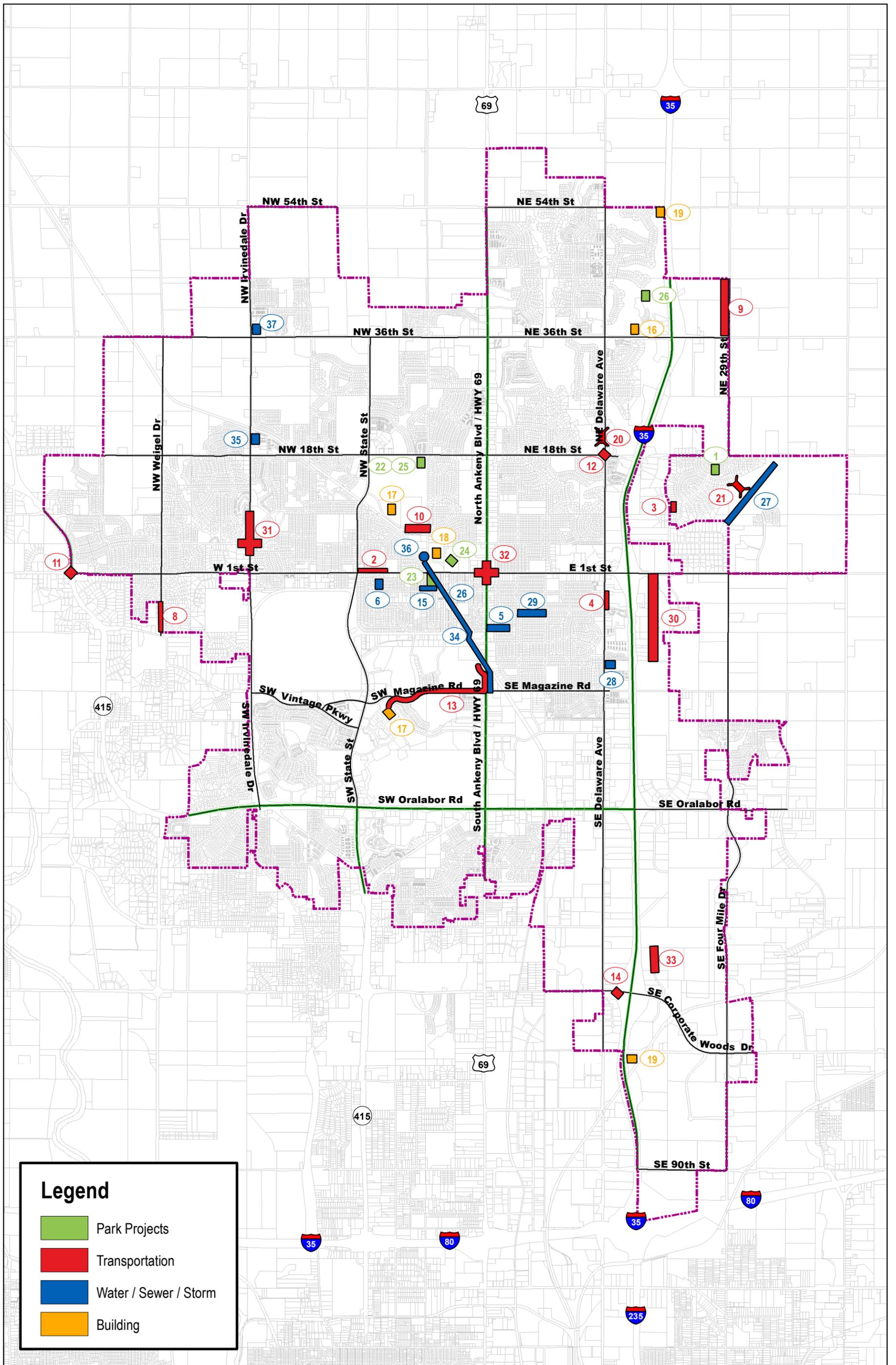
Contact Municipal Utilities Director

Budget Impact/Other

The study portion would require about 40 hours of administrative time. The design phase would require an additional 40 hours. Field staff would not be engaged too deeply into this project until near the end of construction with filling and flushing of mains and the tower. Operating valves and flushing the system then changing the booster station over to level control from pressure control would take 150 hours and 6,000,000 gallons of water.

Budget Items	2018	2019	2020	2021	2022	Total
Personnel Costs	6,000				6,800	12,800
Utilities					15,000	15,000
Total	6,000				21,800	27,800

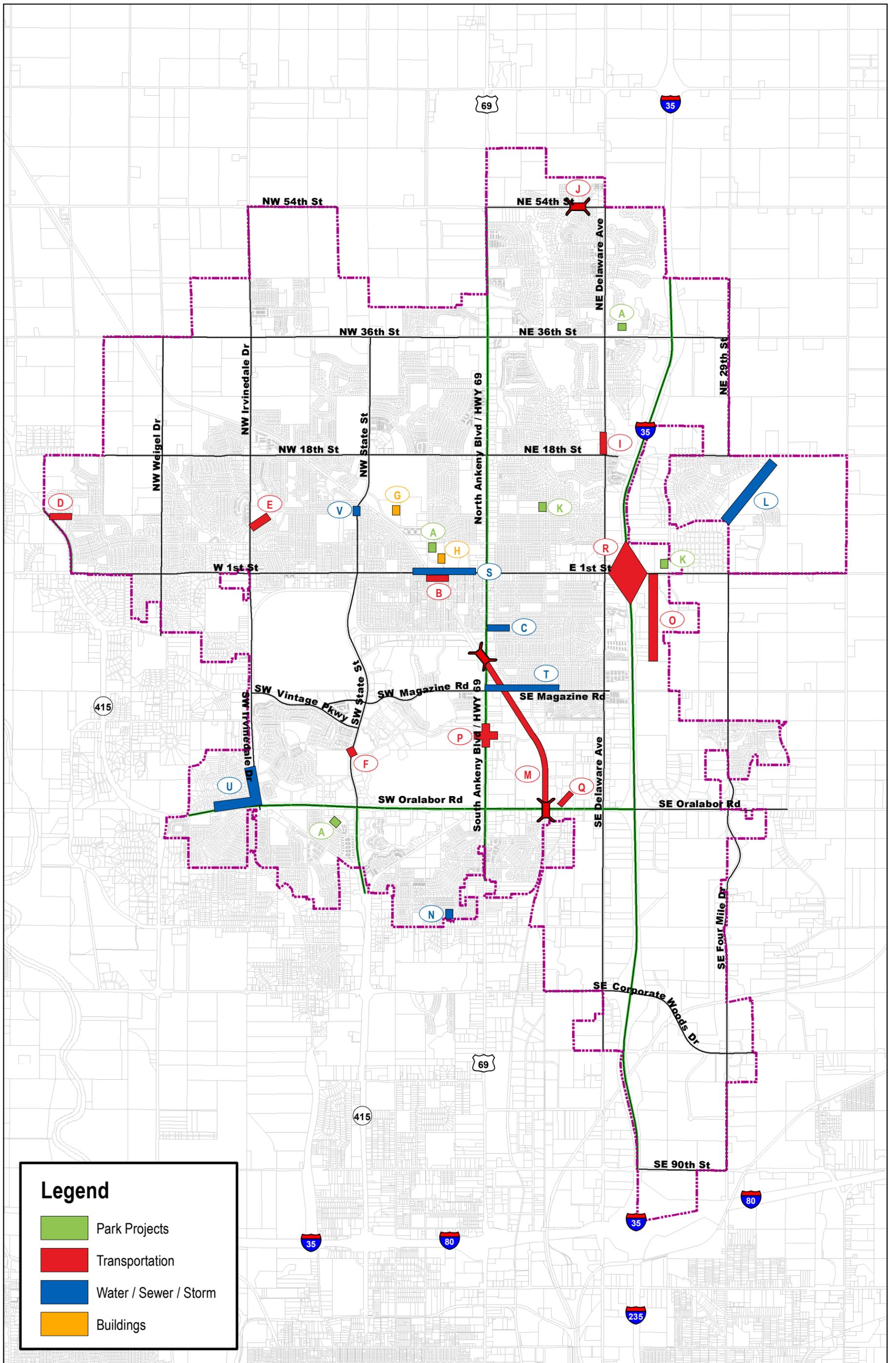
Section 5



Legend

- Park Projects
- Transportation
- Water / Sewer / Storm
- Building





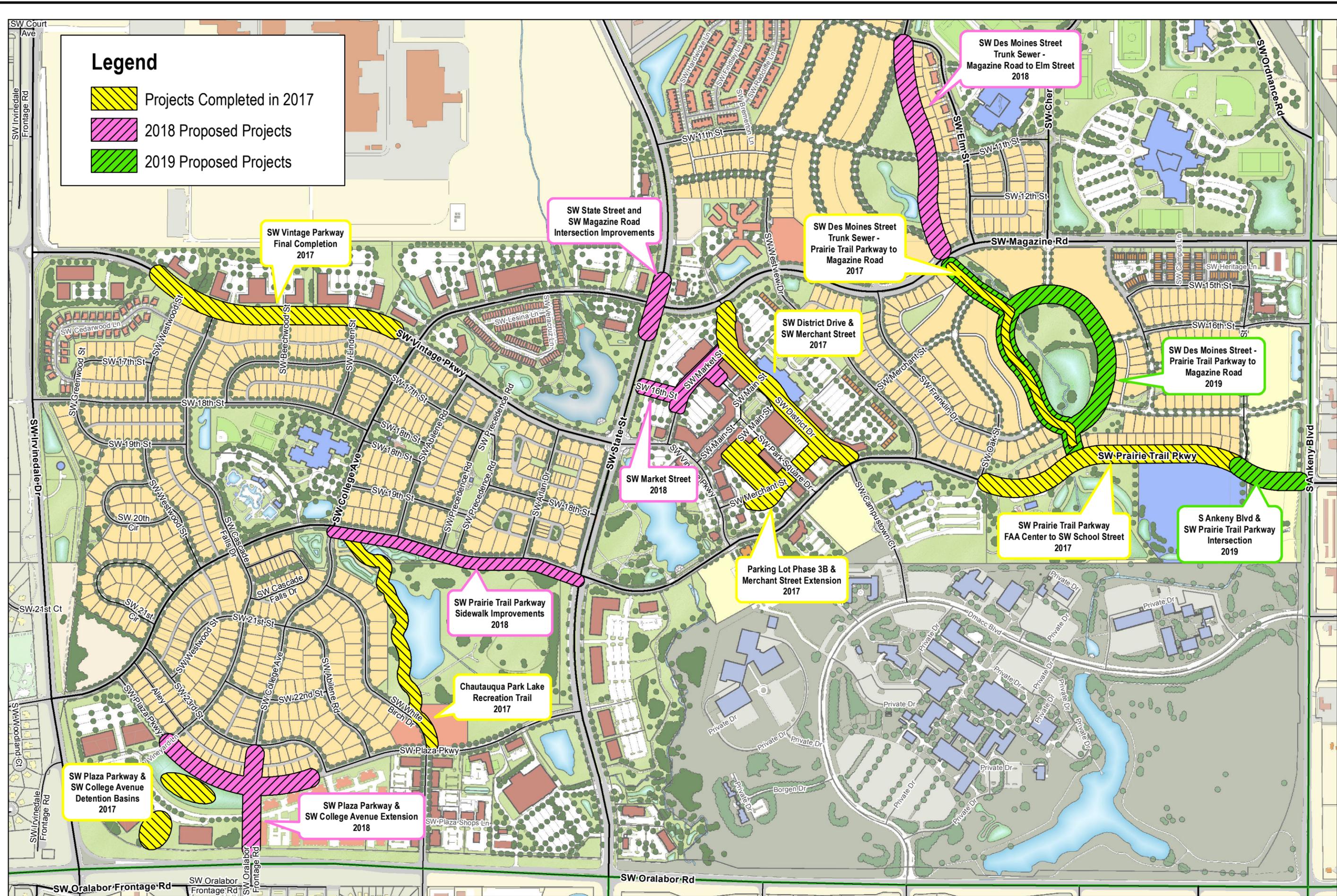
Legend

- Park Projects
- Transportation
- Water / Sewer / Storm
- Buildings





2018 - 2022 Capital Improvement Program
Prairie Trail Construction Projects



Legend

- Projects Completed in 2017
- 2018 Proposed Projects
- 2019 Proposed Projects

SW Vintage Parkway
Final Completion
2017

SW State Street and
SW Magazine Road
Intersection Improvements

SW Des Moines Street
Trunk Sewer -
Prairie Trail Parkway to
Magazine Road
2017

SW Des Moines Street
Trunk Sewer -
Magazine Road to Elm Street
2018

SW District Drive &
SW Merchant Street
2017

SW Des Moines Street -
Prairie Trail Parkway to
Magazine Road
2019

SW Market Street
2018

SW Prairie Trail Parkway
FAA Center to SW School Street
2017

S Ankeny Blvd &
SW Prairie Trail Parkway
Intersection
2019

SW Prairie Trail Parkway
Sidewalk Improvements
2018

Parking Lot Phase 3B &
Merchant Street Extension
2017

Chautauqua Park Lake
Recreation Trail
2017

SW Plaza Parkway &
SW College Avenue Extension
2018

SW Plaza Parkway &
SW College Avenue
Detention Basins
2017



city of
Ankeny

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