



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% |
| <hr/> | | |
| 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 Ordinance 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 Ordnanace 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 |

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| 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

| 2019 CIP Projects by Funding Source | | | General Obligation Bonds | | | | Revenue Bonds | | Miscellaneous | | | | | | |
|---|------------|--------------|--------------------------|-------------|-------------------------|-------------|---------------|-------|---------------|-------------|-----------------|-----------------------------|--------------|-----------------|-------------|
| Project | Project # | 2019 | 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 |

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| 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

| | | | General Obligation Bonds | | | | Revenue Bonds | | Miscellaneous | | | | | | |
|---|------------|--------------|--------------------------|-------------|-------------------------|------------|---------------|-------|---------------|-------------|-----------------|-----------------------------|--------------|-----------------|-------|
| Project | Project # | 2021 | 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> | <u>\$ -</u> | <u>\$ -</u> | <u>\$ -</u> | <u>\$ -</u> |

| <u>Annual Sidewalk/Trail Construction 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 | \$ 299,883 | \$ 164,688 | \$ 114,688 | \$ 114,688 | \$ 114,688 | \$ 114,688 |
| <u>Transfers In</u> | | | | | | |
| 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 |
| <u>Project Expenditures</u> | | | | | | |
| 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 | \$ 114,688 | \$ 114,688 | \$ 114,688 | \$ 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 |
| <u>Transfers In</u> | | | | | | |
| Transfer from Sewer Fund | \$ 400,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 |
| Total Transfers In | \$ 400,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 |
| <u>Project Expenditures</u> | | | | | | |
| 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 |

[illegible][illegible]

[illegible]

Projected
2018

Projected
2020

Projected
2021

Projected
2022

Annual Pavement Preservation Program

[illegible]

Annual Street Replacement Program

| | <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 | \$ 93,397 | \$ 333,500 | \$ 333,500 | \$ 133,500 | \$ 133,500 | \$ 133,500 |
| | | | | | | |
| <u>Transfers In</u> | | | | | | |
| 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 |
| | | | | | | |
| <u>Project Expenditures</u> | | | | | | |
| 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 | <u>\$ 333,500</u> | <u>\$ 333,500</u> | <u>\$ 133,500</u> | <u>\$ 133,500</u> | <u>\$ 133,500</u> | <u>\$ 133,500</u> |

| <u>Annual Traffic Signal Improvement 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 | \$ 8,862 | \$ 309,787 | \$ 159,787 | \$ 109,787 | \$ 109,787 | \$ 109,787 |
| <u>Transfers In</u> | | | | | | |
| 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 |
| <u>Project Expenditures</u> | | | | | | |
| 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 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 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 | | High Priority Projects | | | | | | | | | | Project Cost |
| | | Type | 2018 | 2019 | 2020 | 2021 | 2022 | 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 | | | | | | | High Priority Projects | | | | | Project Cost |
|------------------|---|-----------|-------------|-------------|-------------|-------------|-------------|------------------------|-------------|-------------|-------------|-------------|--------------|
| | | Type | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | |
| SIDEWALKS/TRAILS | | | | | | | | | | | | | |
| M | High Trestle Trail Extension - SW Ordnance 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 | |
| | PRAIRIE TRAIL | | | | | | | | | | | | |
| | 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) |

| | | | | | | | | PROJECTED GENERAL OBLIGATION DEBT | | | | | | | | | | | | Ending Fund Balance |
|-------------|---------------------|--------|--------------|-----------|------------------------|-------------|-----------------------|-----------------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-----------|------------|------------|--------------------|--|---------------------|
| | | | | | | | | Par Proceeds Existing GO Debt | \$13,755,000 2018 CIP-Taxes | \$12,590,000 2019 CIP-Taxes | \$7,840,000 2020 CIP-Taxes | \$9,415,000 2021 CIP-Taxes | \$8,705,000 2022 CIP-Taxes | Estimated Future GO Bonds | Bond Fees | Other Uses | Total Uses | Surplus/ (Deficit) | | |
| Fiscal Year | Total Tax Valuation | Growth | Taxes Levied | Debt Levy | Utility/ TIF Abatement | Misc Income | Property Tax Backfill | Total Resources | | | | | | | | | | | | |
| 2011 - 2012 | 2,194,249,206 | 4.4% | 7,677,678 | \$3.4990 | 5,706,470 | | | 13,384,148 | 13,705,574 | | | | | | 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 | | | | | | 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 |

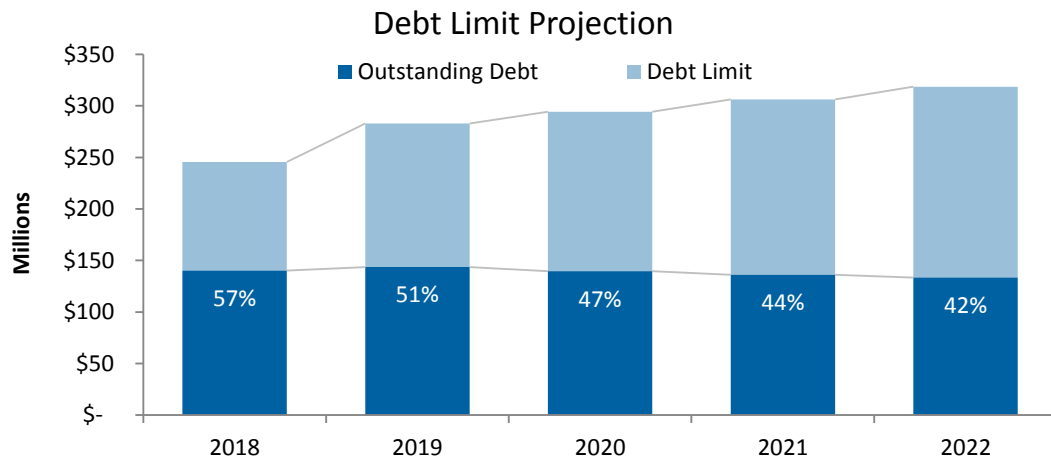
Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

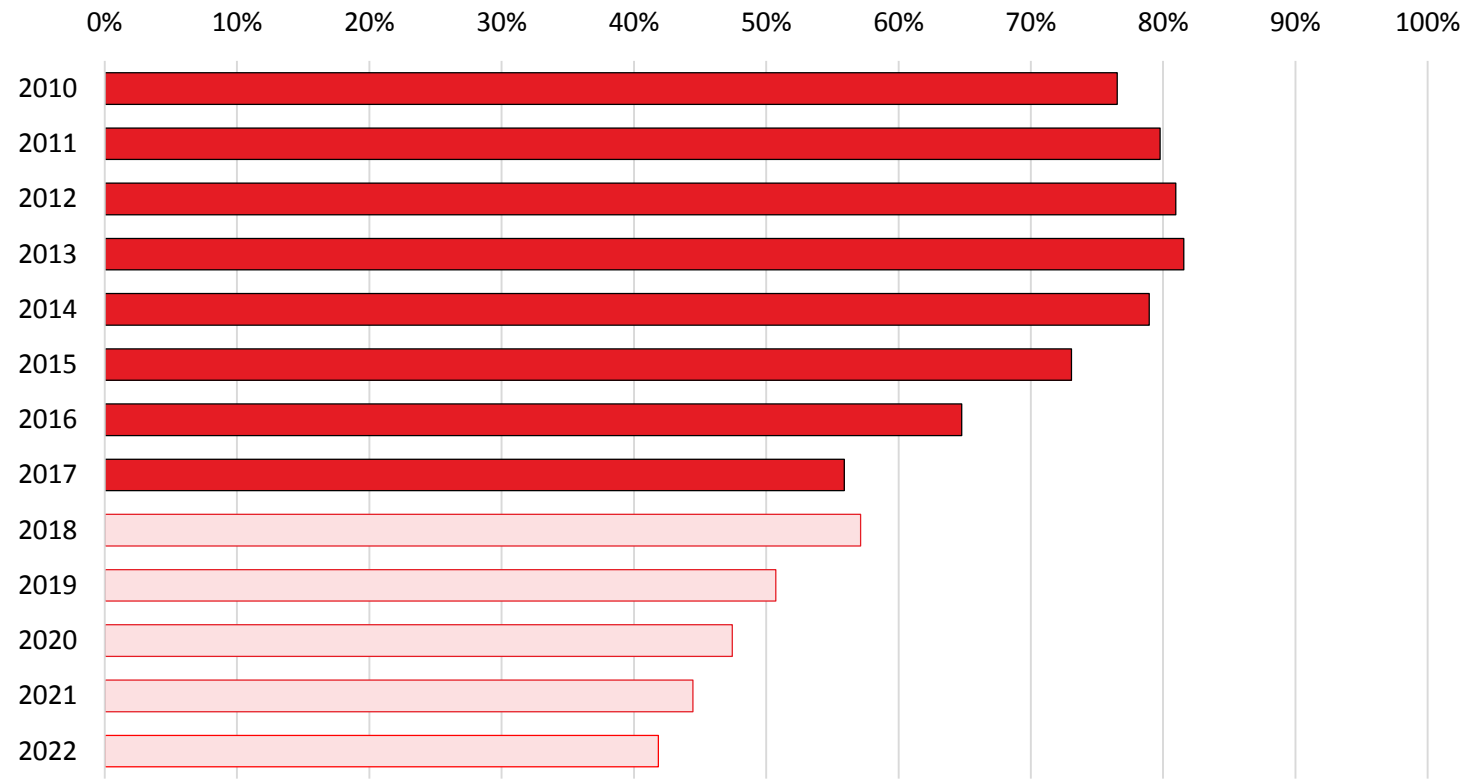
| Outstanding Debt | | |
|---------------------------|---------------|------------------|
| Issue Date | Maturity Date | Outstanding Debt |
| 04/08/09 | 06/01/28 | \$ 1,937,000 |
| 05/15/10 | 06/01/21 | 2,505,000 |
| 05/15/11 | 06/01/26 | 6,555,000 |
| 05/30/12 | 06/01/27 | 8,075,000 |
| 05/30/12 | 06/01/18 | 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 Irvindale Drive Transmission Main-Phase 2 | Water Utility | WTM-17-006 | 3,450,000 |
| SW Irvindale 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-Ordinance 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 Irvindale 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 DMACC 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
Type New Construction
Useful Life 40 years
Category Municipal Buildings

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

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 Fire
Contact Fire Chief

Budget Impact/Other

The additional station will increase utility and maintenance costs for the City as the new building will need to be maintained and sustained for many years to come. The utility bills will be attenuated by the station’s geothermal HVAC system and modern building construction. LED lighting will be utilized throughout the building as well.

| Budget Items | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-------------------|--------|--------|--------|--------|--------|---------|
| Maintenance Costs | 23,000 | 23,000 | 23,000 | 23,000 | 23,000 | 115,000 |
| Utilities | 15,000 | 15,000 | 15,000 | 15,000 | 15,000 | 75,000 |
| Total | 38,000 | 38,000 | 38,000 | 38,000 | 38,000 | 190,000 |

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Administration

Contact Assistant City Manager

Project # BLD-16-001

Project Name Library and Former Library Renovation

Type New Construction

Useful Life 40 years

Category Municipal Buildings

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 | 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 |

City of Ankeny, Iowa

2018 *thru* 2022

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 |
|-------|---------|---------|---------|

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 |

City of Ankeny, Iowa

2018 *thru* 2022

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 | 75,000 | | | | | 75,000 |
| Services | | | | | | |
| 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

City of Ankeny, Iowa

2018 *thru* 2022

Department Prairie Trail Development
Contact City Engineer

| | | |
|-------|-------|-------|
| Total | 3,600 | 3,600 |
|-------|-------|-------|

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Prairie Trail Development

Contact City Engineer

Project # COR-16-004

Project Name SW Des Moines Street-Prairie Trail to Magazine

Type New Construction

Useful Life 40 years

Category Corridor Development

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

Project # COR-17-002

Project Name The District at Prairie Trail-SW Market Street

Type New Construction

Useful Life 40 years

Category Corridor Development

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 | 90,000 | | | | | 90,000 |
| Services | | | | | | |
| 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

Project # COR-18-001

Project Name SW State Street and SW Magazine Road Intersection

Type Improvement

Useful Life 40 years

Category Corridor Development

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 |
|-------|-----|-----|-----|-----|-----|

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 |

City of Ankeny, Iowa

2018 *thru* 2022

Department Parks and Recreation

Contact Parks and Recreation Director

Project # **PRK-09-001**

Project Name **Prairie Ridge Sports Complex-Field Lighting**

Type Improvement

Useful Life 40 years

Category Park Facilities

Description

Add additional sports field lighting to Prairie Ridge Sports Complex fields #45 and #46

Justification

In 2010 a partnership was developed with the Ankeny Girls Softball Association to light softball fields #41-44. A similar partnership will occur in 2018 to light the two remaining fields #45 and #46. The project will be cost shared with Ankeny Girls Softball Association.



| Expenditures | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|--------------------|---------|------|------|------|------|---------|
| Construction Costs | 190,000 | | | | | 190,000 |
| Total | 190,000 | | | | | 190,000 |

| Funding Sources | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-----------------------|----------------|------|------|------|------|----------------|
| Hotel/Motel Tax Fund | 95,000 | | | | | 95,000 |
| Private Contributions | 95,000 | | | | | 95,000 |
| Total | 190,000 | | | | | 190,000 |

Budget Impact/Other

The addition of lighting on fields #45 and #46 will expand the window for play and increase usage of the fields for both league play and tournaments. This improvement is estimated to increase operating and maintenance costs by \$3,900 annually.

| Budget Items | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-------------------|-------|-------|-------|-------|-------|--------|
| Maintenance Costs | 1,500 | 1,500 | 1,500 | 1,500 | 1,500 | 7,500 |
| Utilities | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 | 12,000 |
| Total | 3,900 | 3,900 | 3,900 | 3,900 | 3,900 | 19,500 |

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

| Budget Items | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-------------------|-------|-------|-------|-------|-------|--------|
| Maintenance Costs | 6,500 | 6,500 | 6,500 | 6,500 | 6,500 | 32,500 |
| Utilities | 1,500 | 1,500 | 1,500 | 1,500 | 1,500 | 7,500 |
| Total | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 40,000 |

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 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

Budget Impact/Other

The replacement of lighting at the Hawkeye Park Sports Complex with new and more energy efficient lighting is anticipated to save \$2,300 on utility costs and \$2,400 on maintenance costs annually (\$4,700 total).

| Budget Items | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-------------------|--------|--------|--------|--------|--------|---------|
| Maintenance Costs | -2,400 | -2,400 | -2,400 | -2,400 | -2,400 | -12,000 |
| Utilities | -2,300 | -2,300 | -2,300 | -2,300 | -2,300 | -11,500 |
| Total | -4,700 | -4,700 | -4,700 | -4,700 | -4,700 | -23,500 |

2018 - 2022 Capital Improvement Program

2018 *thru* 2022

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-14-002

Project Name Prairie Ridge Sports Complex-Drainage Improvements

Type Improvement

Useful Life 20 years

Category Park Facilities

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 |
|-------|--------|--------|---------|

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
City of Ankeny, Iowa

2018 thru 2022

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
Type Improvement
Useful Life 20 years
Category Park Facilities

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

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

City of Ankeny, Iowa

2018 *thru* 2022

Department Parks and Recreation
Contact Parks and Recreation Director

| | | | | |
|-------|-------|-------|-------|-------|
| Total | 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
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

| | | |
|--------------------|---------------|---------------|
| Construction Costs | 50,000 | 50,000 |
| Total | 63,000 | 63,000 |

| Funding Sources | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|----------------------|---------------|------|------|------|------|---------------|
| Capital Project Fund | 23,000 | | | | | 23,000 |
| Golf Course Fund | 40,000 | | | | | 40,000 |
| Total | 63,000 | | | | | 63,000 |

Budget Impact/Other

The patio extension will have an overall positive impact on the Otter Creek Clubhouse Banquet Facilities with the additional wedding reservations. The added operating impacts are minimal with \$500 estimated in maintenance costs.

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

City of Ankeny, Iowa

2018 *thru* 2022

Department Parks and Recreation

Contact Parks and Recreation Director

Project # **PRK-18-003**

Project Name **Hawkeye Park Tennis Courts Replacement**

Type Replacement

Useful Life 40 years

Category Park Facilities

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 |
|-------|---------|---------|---------|---------|---------|-----------|

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

Project # SDW-16-001

Project Name High Trestle Trail Extension-Ordinance to Oralabor

Type New Construction

Useful Life 40 years

Category Sidewalks/Trails

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 Ordinance 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 Ordinance 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 |
|-------|---------|-----------|---------|-----------|-----------|

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

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program

Type Improvement

Useful Life 40 years

Category Sanitary Sewers

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

Project # SNS-18-001

Project Name SE Delaware Bank Stabilization

Type Maintenance

Useful Life 20 years

Category Sanitary Sewers

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

Project # SNS-18-002

Project Name Sanitary Sewer Study and Master Plan

Type Improvement

Useful Life 10 years

Category Sanitary Sewers

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

Project # STM-17-001

Project Name Saylor Creek Tributary Channel Improvements

Type Improvement

Useful Life 20 years

Category Storm Water

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

Project # STM-18-002

Project Name Wildflower Detention Basin Improvements

Type Improvement

Useful Life 20 years

Category Storm Water

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 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 Ordinance 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 Ordinance Road from SW State Street to South Ankeny Boulevard (HMA overlay & HMA shoulder inlay with HMA driveways) and SW Railroad Avenue from SW Ordinance 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 |
|-------|---------|---------|---------|---------|---------|-----------|

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

Project # STR-14-005

Project Name NW Irvinedale Drive & NW 5th Steet Intersection

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Description

Reconstruction of the NW Irvinedale Drive and NW 5th Street intersection to provide traffic capacity and mobility improvements. Dedicated left turn lanes will be provided at all four legs of the intersection. Traffic signal improvements will also be needed to accommodate the dedicated left turn lanes. The reconstruction will provide an urban three-lane cross section on the south, north, and west legs of the intersection. In addition, safety improvements will be made along the west side of NW Irvinedale Drive between NW 5th Street and NW 9th Street with the installation of a retaining wall. Water main and sanitary sewer construction are included with the project; both items are quantified separately in the table below. Some fee title acquisition, permanent sanitary sewer easement, permanent sidewalk easement, and temporary construction easement will be required, along with franchise utility relocations.

Justification

NW Irvinedale Drive is an arterial street that serves a large portion of the northwest part of the City of Ankeny. This section of NW Irvinedale Drive is currently a two-lane rural section that was an old asphalt road inherited from Polk County. There are intersections within the corridor that create bottlenecks due to the lack of left turn lanes, and there are some locations along the roadway with steep sideslopes which are considered potential safety issues. The water main construction is included to provide a 24" diameter transmission main along the east side of NW Irvinedale Drive, 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-Construction Services | 300,000 | | | | | 300,000 |
| Construction Costs | 2,500,000 | | | | | 2,500,000 |
| Street Lighting | 75,000 | | | | | 75,000 |
| Legal-General/Spec. Assessment | 5,000 | | | | | 5,000 |
| Land/ROW Acquisition | 20,000 | | | | | 20,000 |
| Total | 2,900,000 | | | | | 2,900,000 |

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

Project # STR-14-006

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

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Description

Reconstruction of NE Delaware Avenue from a two-lane rural roadway to a four-lane divided urban street with left turn lanes at the intersections from NE 5th Street to NE 18th Street. The project also includes a new permanent traffic signal at the NE Delaware Avenue and NE 18th Street intersection, fiber optic interconnect from the new traffic signal at NE 18th Street south to East 1st Street, and upsizing the existing reinforced concrete box culvert to a triple 12 feet x 8 feet RCB.

Justification

This project is being planned for 2022 (Phase 1) and 2023 (Phase 2) construction. The traffic study by Snyder & Associates in 2013 did not show a need to widen this street based on then-current traffic volumes. However, having this street widened will allow for better traffic mobility as the City continues to grow. The study also recommended major improvements to the NE Delaware Avenue and NE 18th Street intersection. The estimated total cost in 2023 is \$4,625,000 for construction, construction engineering services, and street lighting.



| Expenditures | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-----------------------------------|------|------|----------------|----------------|------------------|------------------|
| Engineering-Design | | | 100,000 | 225,000 | | 325,000 |
| Engineering-Construction Services | | | | | 450,000 | 450,000 |
| Construction Costs | | | | | 4,025,000 | 4,025,000 |
| Street Lighting | | | | | 100,000 | 100,000 |
| Land/ROW Acquisition | | | | 75,000 | 100,000 | 175,000 |
| Total | | | 100,000 | 300,000 | 4,675,000 | 5,075,000 |

| Funding Sources | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-----------------|------|------|----------------|----------------|------------------|------------------|
| G.O. Bonds | | | 100,000 | 300,000 | 4,675,000 | 5,075,000 |
| Total | | | 100,000 | 300,000 | 4,675,000 | 5,075,000 |

2018 - 2022 Capital Improvement Program

City of Ankeny, Iowa

2018 thru 2022

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 | 75,000 | | | | | 75,000 |
| Services | | | | | | |
| 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

Project # STR-16-001

Project Name S Ankeny Blvd and SE Shurfine Dr Intersection

Type Improvement

Useful Life 40 years

Category Streets and Alleys

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

Project # STR-18-001

Project Name North Ankeny Boulevard Landscaping Improvements

Type Improvement

Useful Life 20 years

Category Streets and Alleys

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

City of Ankeny, Iowa

2018 *thru* 2022

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

Project # STR-18-002

Project Name NW 36th St and NW Ash Dr Interim Improvements

Type Improvement

Useful Life 20 years

Category Streets and Alleys

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

City of Ankeny, Iowa

2018 thru 2022

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

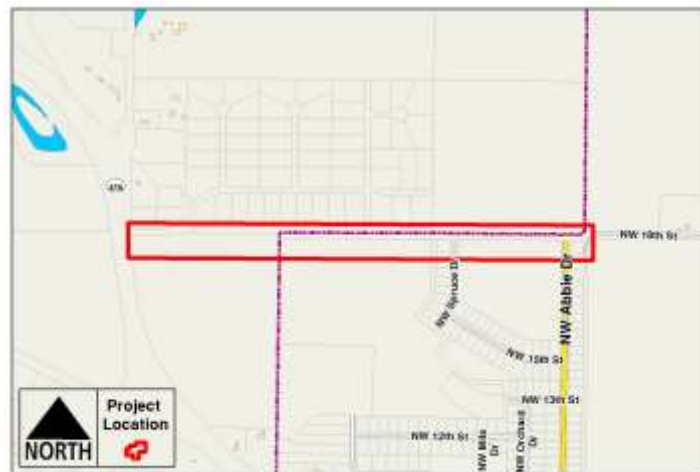
Category Streets and Alleys

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

Project # STR-18-005

Project Name Prairie Ridge Sports Complex-Parking Lot Access

Type Improvement

Useful Life 40 years

Category Streets and Alleys

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

Project # STR-18-006

Project Name S Ankeny Blvd and SW Oralabor Rd Safety Studies

Type Improvement

Useful Life 10 years

Category Streets and Alleys

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 |
|-------|---------|-----------|-----------|

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

City of Ankeny, Iowa

2018 thru 2022

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

Project # WTM-00-001

Project Name Annual Water Main Replacement Program

Type Improvement

Useful Life 40 years

Category Water Mains

Description

Annual allocation of capital improvement funds for repair and replacement of water utility infrastructure. 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)
- 1/3 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
- 1/3 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

Budget Impact/Other

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

| Budget Items | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-----------------|--------|--------|--------|--------|--------|--------|
| Personnel Costs | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 50,000 |
| Utilities | 500 | 500 | 500 | 500 | 500 | 2,500 |
| Total | 10,500 | 10,500 | 10,500 | 10,500 | 10,500 | 52,500 |

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 |

City of Ankeny, Iowa

2018 *thru* 2022

Department Water Utility

Contact Municipal Utilities Director

Type New Construction

Useful Life 40 years

Category Water Mains

Project # **WTM-15-003**

Project Name NW Booster Station

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.



| Expenditures | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-----------------------------------|------------------|------|------|------|------|------------------|
| Engineering-Construction Services | 200,000 | | | | | 200,000 |
| Construction Costs | 2,602,000 | | | | | 2,602,000 |
| Land/ROW Acquisition | 20,000 | | | | | 20,000 |
| Total | 2,822,000 | | | | | 2,822,000 |

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 |

City of Ankeny, Iowa

2018 *thru* 2022

Department Water Utility

Contact Municipal Utilities Director

Type New Construction

Useful Life 40 years

Category Water Mains

Project # **WTM-17-001**

Project Name High Trestle Trail Transmission Main

Description

Approximately 9,200 linear feet of 24" transmission water main along the High Trestle Trail and abandoned railroad grade from the Ash Water Tower north to NW 18th Street, and then west along NW 18th Street to NW Irvinedale Drive. This project will complete the 24" water main loop to the NW Booster Station.

Justification

The purpose of this project is to improve the performance and operation of our overall water system by allowing the Southwest and East pressure zones to be combined into one zone. This transmission main will allow the NW Booster Station to draw suction supply water from both water towers as needed. This will supply the booster station with adequate water for full build out of the area in the northwest quadrant of Ankeny.



| Expenditures | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|-----------------------------------|------|------|------|----------------|------------------|------------------|
| Engineering-Design | | | | 200,000 | | 200,000 |
| Engineering-Construction Services | | | | | 200,000 | 200,000 |
| Construction Costs | | | | | 2,725,000 | 2,725,000 |
| Total | | | | 200,000 | 2,925,000 | 3,125,000 |

| Funding Sources | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|---------------------|------|------|------|----------------|------------------|------------------|
| Water Revenue Bonds | | | | 200,000 | 2,925,000 | 3,125,000 |
| Total | | | | 200,000 | 2,925,000 | 3,125,000 |

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. 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
Type Improvement
Useful Life 40 years
Category Water Mains

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

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 |
|-------|-------|-------|

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

Project # WTM-17-008

Project Name Purchase Capacity in Saylorville Feeder Main

Type Improvement

Useful Life 40 years

Category Water Mains

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

Project # WTM-18-001

Project Name South Ankeny Boulevard Transmission Main

Type New Construction

Useful Life 20 years

Category Water Mains

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

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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

Project # WTM-18-002

Project Name Trestle Ridge Estates 24" Water Main

Type New Construction

Useful Life 40 years

Category Water Mains

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

City of Ankeny, Iowa

2018 *thru* 2022

Department Water Utility
Contact Municipal Utilities Director

| | | |
|-------|-------|-------|
| Total | 8,600 | 8,600 |
|-------|-------|-------|

City of Ankeny, Iowa

2018 *thru* 2022

Department Water Utility

Contact Municipal Utilities Director

Type Maintenance

Useful Life 10 years

Category Water Towers/Storage

Project # **WTT-17-001**

Project Name Ash Water Tower Repair and Repaint

Description

Repair minor pinholes and rust spots, sandblasting, priming, and repainting interior and exterior of existing 500,000 gallon elevated water storage tank.

Justification

Ash Water Tower structure and coating system are in moderate condition and the 500,000 gallon elevated storage facility is projected to be replaced with a 2.5 MG tank in the Water System Master Plan in 2027. This proposed maintenance should ensure that the tower remains functional until it is replaced. It is estimated that a complete exterior repair and painting would cost approximately \$105,000 and a full interior repair and painting would cost approximately \$80,000. Based on the condition of the tower's interior, Municipal Utilities staff believes an interior spot repair and painting amount of \$60,000 would be sufficient.



| Expenditures | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|--------------------|----------------|------|------|------|------|----------------|
| Engineering-Design | 15,000 | | | | | 15,000 |
| Construction Costs | 165,000 | | | | | 165,000 |
| Total | 180,000 | | | | | 180,000 |

| Funding Sources | 2018 | 2019 | 2020 | 2021 | 2022 | Total |
|---------------------|----------------|------|------|------|------|----------------|
| Water Fund | 130,000 | | | | | 130,000 |
| Water Revenue Bonds | 50,000 | | | | | 50,000 |
| Total | 180,000 | | | | | 180,000 |

Budget Impact/Other

Staff will have to work closely with DMWW to keep system pressure up for the 6 weeks needed to complete the project. Overtime and after hour calls are possible. Staff will have to install pressure relief valves on fire hydrants and monitor them frequently. Staff and contractor will have to coordinate shutting down, draining, and filling the tower including operating our system valves. Cell providers will have to remove and install antennae, possibly install temporary facilities. It is estimated that 100 staff hours will be

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

Project # WTT-17-002

Project Name Aquifer Storage and Recovery #1 Replacement

Type Replacement

Useful Life 40 years

Category Water Towers/Storage

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 |

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City of Ankeny, Iowa

2018 thru 2022

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

Project # WTT-18-001

Project Name Concept & Site Study for Future NW Water Tower

Type Improvement

Useful Life 40 years

Category Water Towers/Storage

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

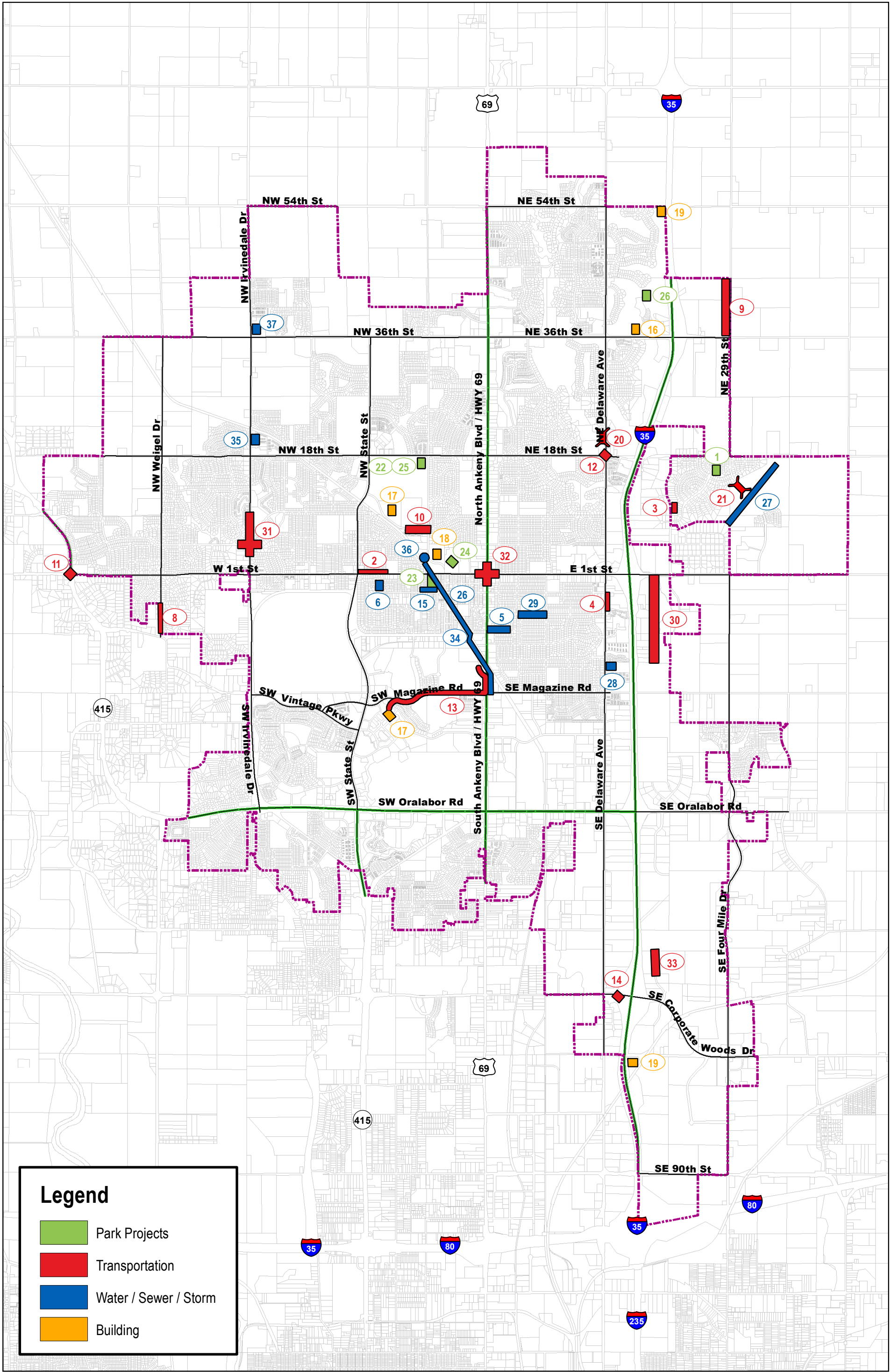
Department Water Utility
Contact Municipal Utilities Director

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 |

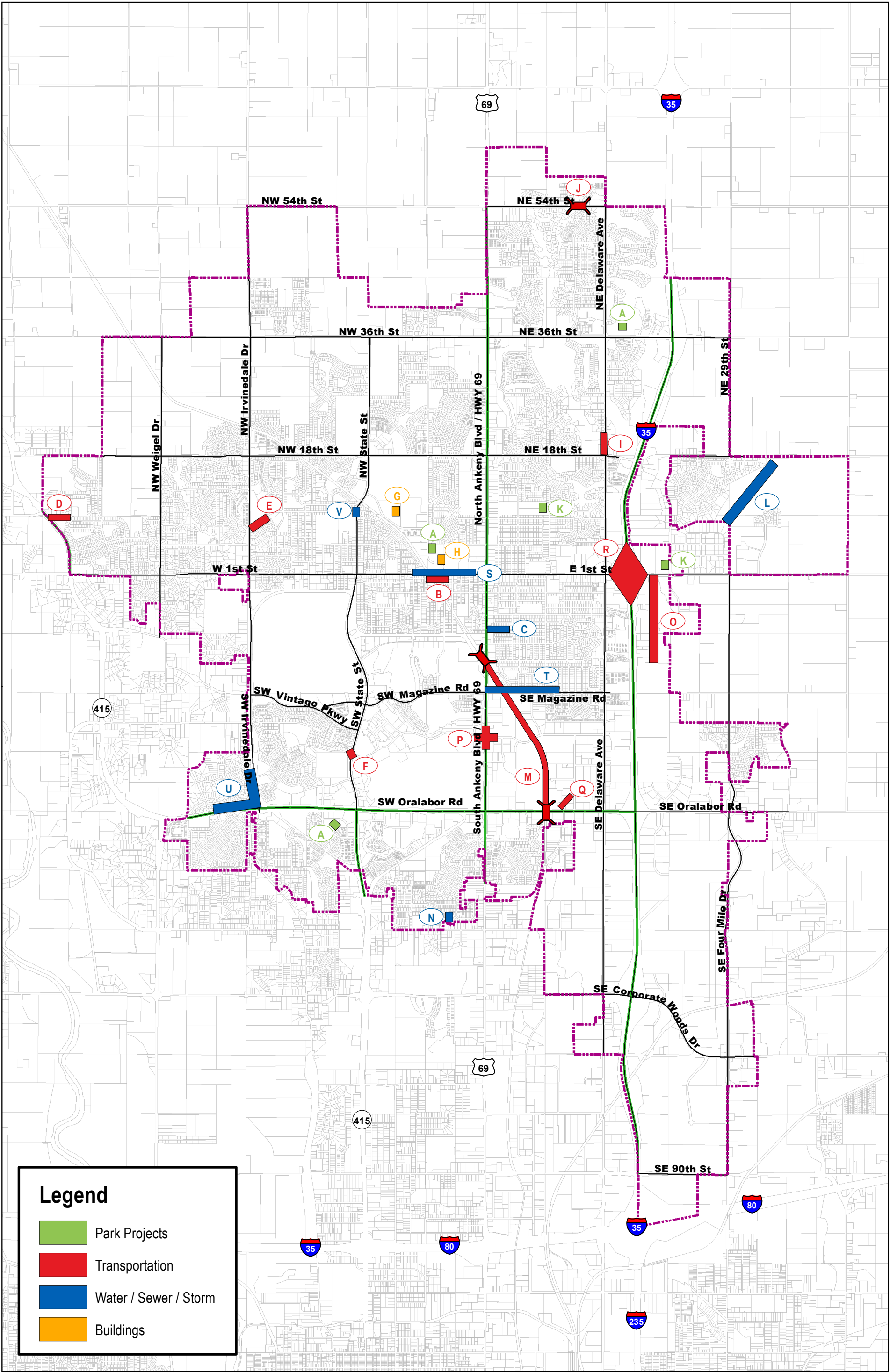
Section 5



Legend

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

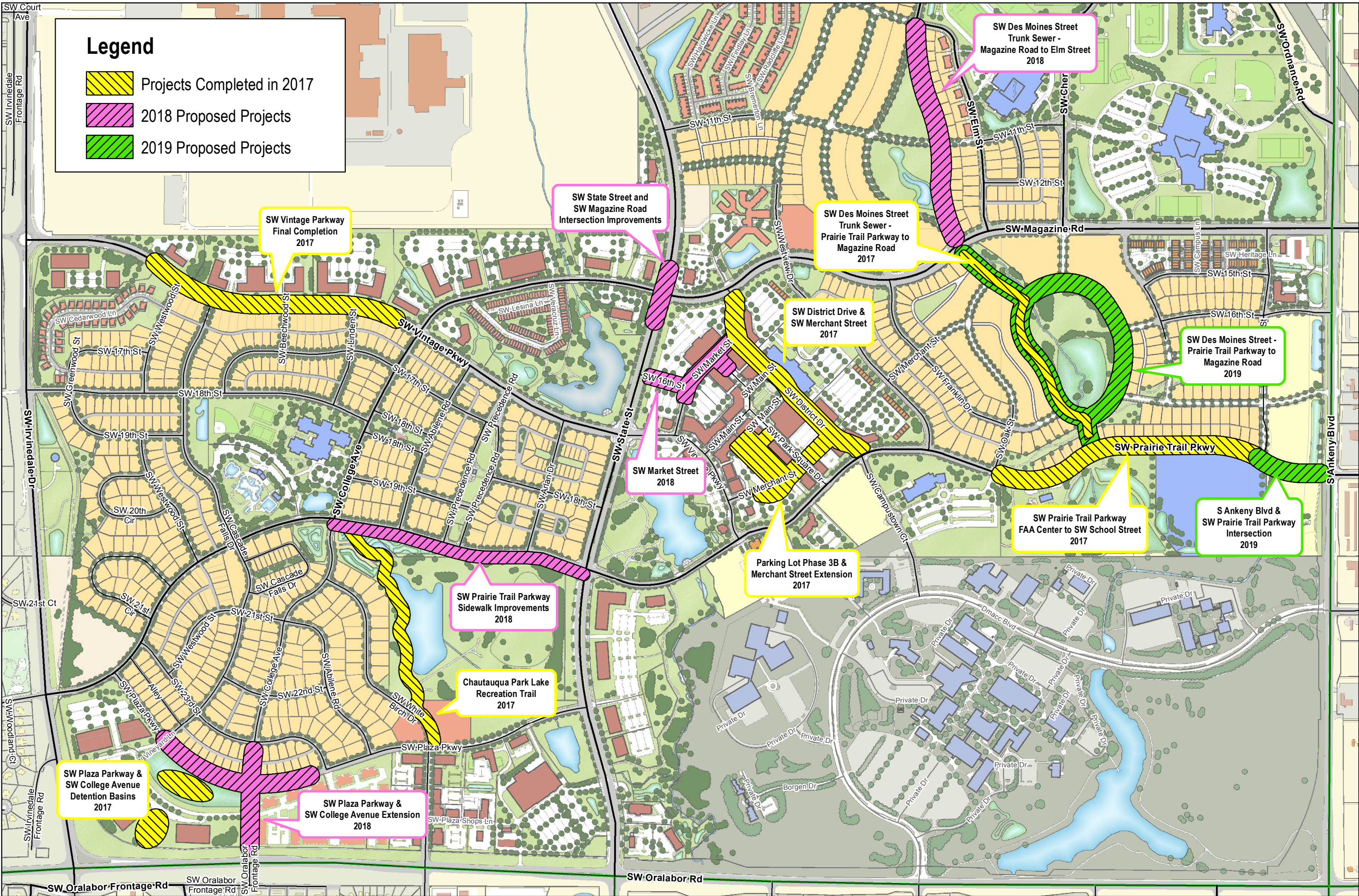




Legend

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







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