

2018-2022 Capital Improvement Program

2018 CIP Projects by Funding Source

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

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

2018-2022 Capital Improvement Program

2019 CIP Projects by Funding Source

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

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

2018-2022 Capital Improvement Program

2020 CIP Projects by Funding Source

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

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

2018-2022 Capital Improvement Program

2021 CIP Projects by Funding Source

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

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

2018-2022 Capital Improvement Program

2022 CIP Projects by Funding Source

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

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

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

Annual Sidewalk/Trail Construction Program

	<u>Projected</u> <u>2017</u>	<u>Projected</u> <u>2018</u>	<u>Projected</u> <u>2019</u>	<u>Projected</u> <u>2020</u>	<u>Projected</u> <u>2021</u>	<u>Projected</u> <u>2022</u>
Beginning Cash Balance	\$ 299,883	\$ 164,688	\$ 114,688	\$ 114,688	\$ 114,688	\$ 114,688
<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
Transfers In						
Transfer from Sewer Fund	\$ 400,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Total Transfers In	\$ 400,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Project Expenditures						
Sanitary Sewer Oversizing	\$ 30,120	\$ 50,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs & Slip Lining	\$ 158,924	\$ 215,000	\$ 175,000	\$ 175,000	\$ 205,000	\$ 205,000
Sanitary Sewer Abandonment	\$ 44,129					
SW Southlawn Area Utility Improvements	\$ 151,218					
SE Eastlawn Area Utility Improvements	\$ 39,156	\$ 410,000	\$ 363,000	\$ 360,000		
NW Northlawn Area Utility Improvements				\$ 42,000	\$ 500,000	\$ 485,000
Total Project Expenditures	\$ 423,546	\$ 675,000	\$ 568,000	\$ 607,000	\$ 735,000	\$ 720,000
Transfers Out - SE Sharon Drive Sanitary Sewer	\$ 87,294					
Transfers Out - SE Delaware Bank Stabilization		\$ 325,000				
Transfers Out - Sanitary Sewer Study and Master Plan		\$ 225,000				
Transfers Out - NW Irvinedale Drive Corridor Improvements		\$ 50,000				
Remaining Cash Balance	<u>\$ 2,838,463</u>	<u>\$ 2,063,463</u>	<u>\$ 1,995,463</u>	<u>\$ 1,888,463</u>	<u>\$ 1,653,463</u>	<u>\$ 1,433,463</u>

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

Annual Street Replacement Program

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

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected</u> <u>2017</u>	<u>Projected</u> <u>2018</u>	<u>Projected</u> <u>2019</u>	<u>Projected</u> <u>2020</u>	<u>Projected</u> <u>2021</u>	<u>Projected</u> <u>2022</u>
Beginning Cash Balance	\$ 8,862	\$ 309,787	\$ 159,787	\$ 109,787	\$ 109,787	\$ 109,787
<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	Type	2018	2019	2020	2021	2022	High Priority Projects					Project Cost
								2023	2024	2025	2026	2027	
ANNUAL PROGRAMS													
1, A	Annual Park Development Program	Parks	\$500,000	\$350,000	\$350,000	\$350,000	\$350,000	\$500,000	\$550,000	\$600,000	\$600,000	\$600,000	\$4,750,000
2, 3, 4, B	Annual Sidewalk/Trail Construction Program	Sidewalks	\$680,000	\$475,000	\$350,000	\$350,000	\$350,000	\$400,000	\$400,000	\$300,000	\$350,000	\$400,000	\$4,055,000
5, C	Annual Sanitary Sewer Replacement Program	Sanitary	\$675,000	\$568,000	\$607,000	\$735,000	\$720,000	\$700,000	\$700,000	\$750,000	\$750,000	\$800,000	\$7,005,000
6	Annual Storm Water Replacement Program	Storm	\$270,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$300,000	\$300,000	\$350,000	\$350,000	\$2,820,000
5, 7, C	Annual PCC Street Patching Program	Streets	\$760,000	\$713,000	\$752,000	\$850,000	\$835,000	\$750,000	\$800,000	\$850,000	\$850,000	\$850,000	\$8,010,000
8, D	Annual Asphalt Street Resurfacing Program	Streets	\$209,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,809,000
9	Annual Pavement Preservation Program	Streets	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$250,000	\$250,000	\$250,000	\$2,150,000
10, E	Annual Street Replacement Program	Streets	\$300,000	\$625,000	\$625,000	\$750,000	\$600,000	\$600,000	\$650,000	\$650,000	\$700,000	\$700,000	\$6,200,000
11,12,13,14, F	Annual Traffic Signal Improvement Program	Traffic	\$875,000	\$550,000	\$350,000	\$350,000	\$350,000	\$400,000	\$400,000	\$500,000	\$500,000	\$500,000	\$4,775,000
5, 15, C	Annual Water Main Replacement Program	Water	\$900,000	\$433,000	\$612,000	\$785,000	\$555,000	\$600,000	\$600,000	\$700,000	\$700,000	\$700,000	\$6,585,000
BUILDINGS													
16	Fire Station No. 3	Buildings	\$4,000,000										\$4,000,000
17, G	Library and Former Library Renovation	Buildings	\$20,300,000	\$4,700,000									\$25,000,000
18, H	Senior Center	Buildings	\$315,000	\$3,775,000									\$4,090,000
19	Community Entrance Signs	Buildings	\$321,000	\$50,000	\$50,000	\$50,000	\$50,000						\$521,000
	Park Maintenance Facility Renovations	Buildings		\$77,000	\$622,000		\$622,000						\$1,321,000
	HVAC Replacement - City Hall	Buildings			\$500,000								\$500,000
	Fire Station No. 4	Buildings							\$400,000	\$500,000	\$5,000,000		\$5,900,000
	Wastewater Treatment Facilities Demolition	Buildings										\$800,000	\$800,000
BRIDGES													
20, I	NE Delaware Avenue Pedestrian Bridge and Trail Connection	Bridge	\$700,000	\$220,000									\$920,000
21	NE Four Mile Drive RCB Culvert for Deer Creek	Bridge	\$975,000										\$975,000
J	NE 54th Street Bridge Replacement and Trail Connection	Bridge	\$100,000	\$1,075,000									\$1,175,000
	NE 18th Street Improvements and I-35 Overpass Bridge	Bridge						\$900,000	\$6,100,000	\$2,500,000			\$9,500,000
	SW Oralabor Road and SW State Street Regional Trail Overpass	Bridge							\$100,000	\$1,500,000			\$1,600,000
	SW Oralabor Road and Ankeny Boulevard Regional Trail Overpass	Bridge								\$100,000	\$1,500,000		\$1,600,000
	Corporate Woods Drive Railroad Overpass	Bridge									\$750,000	\$8,500,000	\$9,250,000
PARKS													
22	Prairie Ridge Sports Complex - Field Lighting	Parks	\$190,000										\$190,000
23	Ankeny Market & Pavilion	Parks	\$97,000										\$97,000
K	Older Parks Renovation Plan	Parks	\$365,000	\$200,000	\$251,000								\$816,000
24	Hawkeye Park Sports Complex - Field Lighting	Parks	\$275,000										\$275,000
25	Prairie Ridge Sports Complex - Drainage Improvements	Parks	\$76,000		\$78,000								\$154,000
26	Otter Creek Golf Course Patio Addition	Parks	\$63,000										\$63,000
H	Hawkeye Park Tennis Courts Replacement	Parks		\$730,000									\$730,000
	Prairie Ridge Sports Complex - Tee Ball Field	Parks			\$154,000								\$154,000
	High Trestle Trail Trailhead and Parking Lot	Parks			\$130,000								\$130,000
	Miracle Park Concession Stand Access Road	Parks						\$60,000					\$60,000
	Chautauqua Park Development	Parks							\$3,000,000	\$3,000,000			\$6,000,000
	Watercrest Community Park Expansion	Parks										\$2,000,000	\$2,000,000
SANITARY SEWERS													
	Sanitary Sewer Study and Master Plan	Sanitary	\$225,000										\$225,000
27, L	Deer Creek Trunk Sewer	Sanitary	\$1,475,000	\$1,100,000									\$2,575,000
28	SE Delaware Bank Stabilization Project	Sanitary	\$325,000										\$325,000
	Otter Creek Trunk Sewer - Phase 3	Sanitary				\$260,000	\$1,240,000						\$1,500,000
	Otter Creek Trunk Sewer - Phase 4	Sanitary					\$150,000	\$675,000					\$825,000

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

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

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

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

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

EXHIBIT 1

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

Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/ TIF Abatement	Misc Income	Property Tax Backfill	Total Resources	PROJECTED GENERAL OBLIGATION DEBT										Total Uses	Surplus/ (Deficit)	Ending Fund Balance
									Par	\$13,755,000	\$12,590,000	\$7,840,000	\$9,415,000	\$8,705,000	Estimated Future GO Bonds	Bond Fees	Other Uses				
									Proceeds Existing GO Debt	2018 CIP-Taxes	2019 CIP-Taxes	2020 CIP-Taxes	2021 CIP-Taxes	2022 CIP-Taxes							
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	19,000	369,771	22,346,591	23,123,605								7,000		23,130,605	(784,013)	2,144,487
2018 - 2019	3,543,074,569	13.7%	13,286,530	\$3.7500	7,345,501	19,000	358,678	21,009,709	18,043,893	3,304,930							7,000		21,355,822	(346,113)	1,798,373
2019 - 2020	3,740,316,523	5.6%	14,026,187	\$3.7500	7,284,455	19,000	347,918	21,677,559	15,183,213	2,791,488	3,693,063						7,000		21,674,763	2,797	1,801,170
2020 - 2021	3,814,016,460	2.0%	13,730,459	\$3.6000	7,257,708	19,000	337,480	21,344,648	15,163,339	1,832,613	1,536,781	2,814,758					7,000		21,354,490	(9,843)	1,791,327
2021 - 2022	4,014,577,133	5.3%	14,051,020	\$3.5000	6,635,476	19,000	327,356	21,032,851	12,967,301	1,186,363	1,235,781	1,781,763	3,859,329				7,000		21,037,537	(4,686)	1,786,642
2022 - 2023	3,986,692,518	(0.7%)	13,953,424	\$3.5000	6,612,249	19,000	317,535	20,902,207	12,956,814	1,182,238	1,234,981	915,888	2,211,431	2,397,536			7,000		20,905,887	(3,680)	1,782,962
2023 - 2024	4,037,320,117	1.3%	14,130,620	\$3.5000	6,502,461	19,000	308,009	20,960,090	13,081,839	1,181,988	1,237,781	834,013	909,131	1,585,231	2,126,098		7,000		20,963,081	(2,990)	1,779,972
2024 - 2025	3,948,363,648	(2.2%)	13,819,273	\$3.5000	5,122,570	19,000	298,769	19,259,611	11,442,834	1,185,425	1,238,981	459,263	856,506	1,170,381	2,902,265		7,000		19,262,655	(3,044)	1,776,928
2025 - 2026	4,009,250,225	1.5%	14,032,376	\$3.5000	4,712,559	19,000	289,806	19,053,740	10,787,610	1,182,363	1,238,581	459,175	859,781	1,322,394	3,202,741		7,000		19,059,645	(5,905)	1,771,023

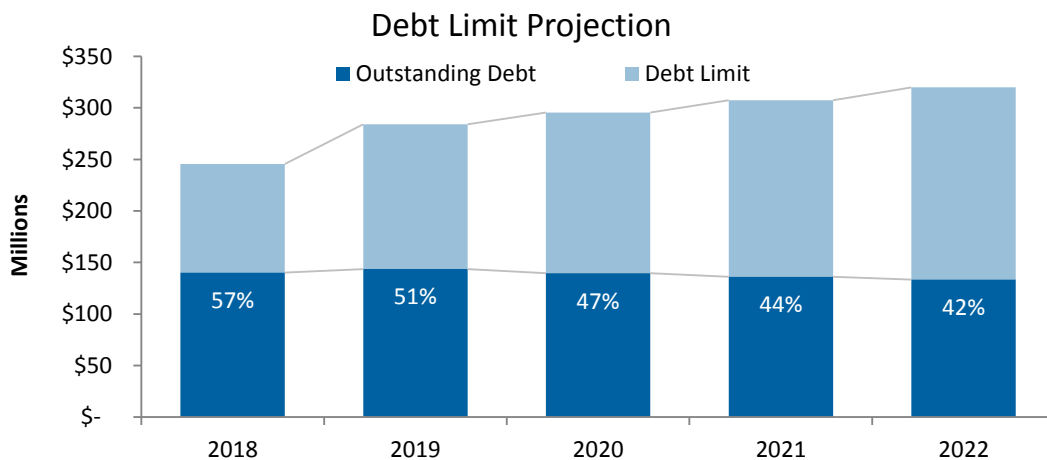
Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

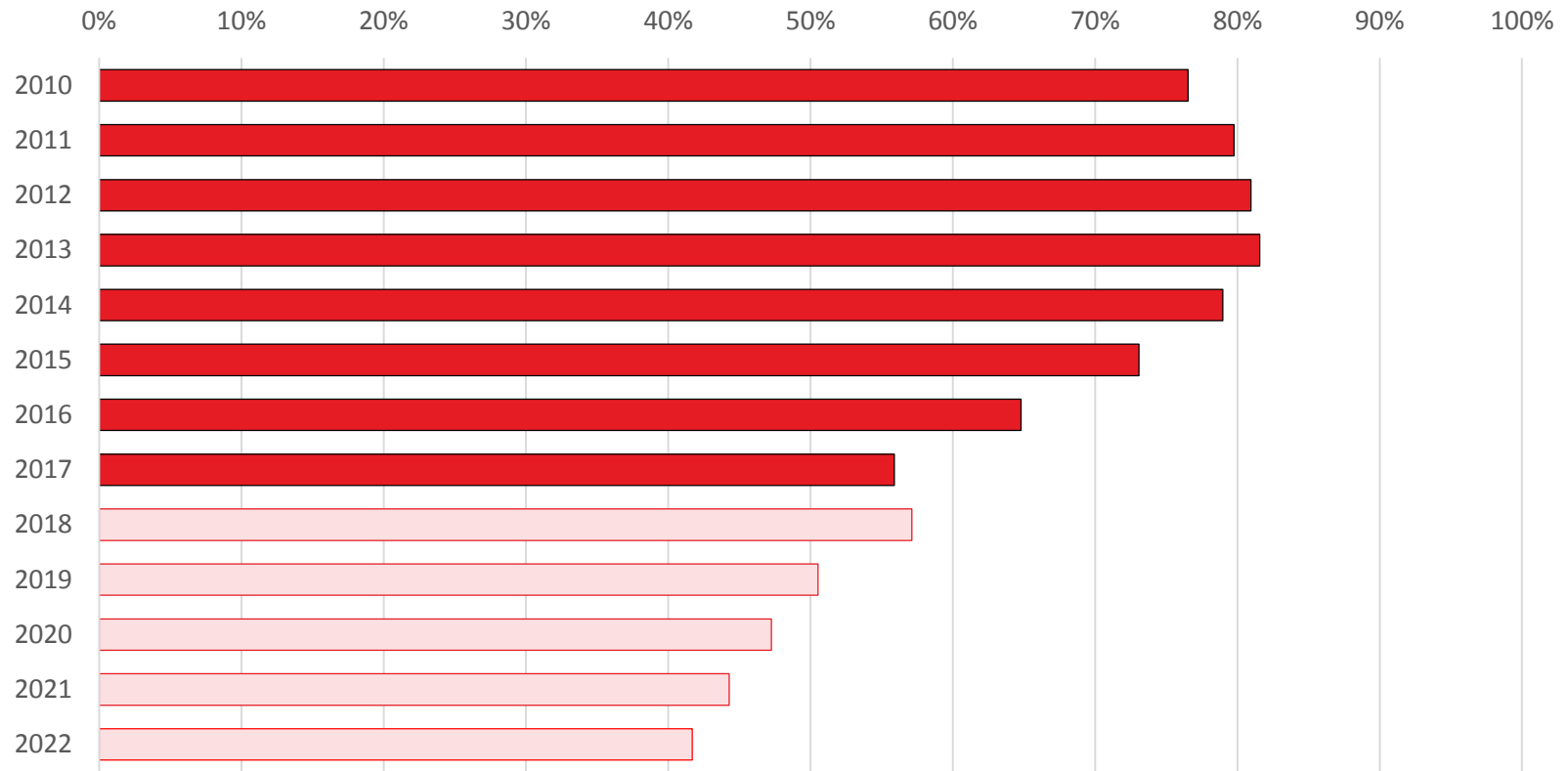
Outstanding Debt		
Issue Date	Maturity Date	Outstanding Debt
04/08/09	06/01/28	\$ 1,937,000
05/15/10	06/01/21	2,505,000
05/15/11	06/01/26	6,555,000
05/30/12	06/01/27	8,075,000
05/30/12	06/01/18	1,435,000
05/30/13	06/01/28	14,760,000
05/30/13	06/01/28	10,450,000
05/29/14	06/01/29	12,540,000
05/29/14	06/01/29	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	5,680,453,786	284,022,689	143,531,023	140,491,666	51%
2020	5,907,900,111	295,395,006	139,576,166	155,818,840	47%
2021	6,146,516,908	307,325,845	136,097,110	171,228,735	44%
2022	6,396,861,692	319,843,085	133,360,244	186,482,841	42%



Historical and Projected Debt Limit



Capital Project Request Form

- The capital request form is completed by the director and submitted to the City Manager's Office for inclusion in the capital improvement program.
- The dollar amount and timing of the capital project request form may not match due to recommended changes by the City Manager's Office.

CAPITAL PROJECT REQUEST FORM

Department: City Manager	Project Type: Municipal Buildings (BLD)
New/Replacement: New - Non-Existing	Core Business: Provide Public Safety and Emergency Services
Project Title: Fire Station No. 3	Project Number (if previous project): BLD-15-001

New Project or Change to Previous Project - Change to Previous Project

Technical Description of Project/Equipment:

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.

Strategy, Plan or Study: City of Ankeny Fire Department - Response Time Study

Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:

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.

Operating Impact:

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.

Project Estimate Completed By: City Manager Staff **Date:** 12/5/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$40,000				
Planning/Study					
Legal & Recording					
Easements/Land					
FF & E	\$450,000				
Construction	\$2,810,000				
Total Operating Costs	\$3,300,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$3,300,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs	\$23,000	\$23,000	\$23,000	\$23,000	\$23,000
Utilities	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Total Operating Impact	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000

CAPITAL PROJECT REQUEST FORM

Department: City Manager's Office	Project Type: Municipal Buildings (BLD)		
New/Replacement: New - Non-Existing	Core Business: Provide Sound Governance and Management of City Resources		
Project Title: Library and Former Library Renovation	Project Number (if previous project): BLD-16-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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 Service Building.			
Strategy, Plan or Study:	2015 City Facilities Needs Study, Preliminary Library Design by OPN Architects		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	OPN Architects and Manager's Office	Date:	11/21/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$1,100,000	\$350,000			
Planning/Study					
Legal & Recording					
Easements/Land	\$1,400,000				
Equipment (FF&E)	\$2,800,000				
Construction	\$15,000,000	\$4,350,000			
Total Operating Costs	\$20,300,000	\$4,700,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other: Civic Trust Fund	\$11,500,000				
Total Outside Funding	\$11,500,000	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$8,800,000	\$4,700,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$5,000	\$20,000	\$20,000	\$20,000
Utilities					
Total Operating Impact	\$0	\$5,000	\$20,000	\$20,000	\$20,000

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)		
New/Replacement: Replacement - Poor	Core Business: Provide Sound Governance and Management of City Resources		
Project Title: Park Maintenance Facility Renovations	Project Number (if previous project): BLD-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
Renovate and expand the current Park Maintenance Facility.			
Strategy, Plan or Study: Ankeny Parks & Facilities Comprehensive Plan			
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>			
Operating Impact:			
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.			
Project Estimate Completed By:	Snyder & Associates	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$77,000	\$22,000	\$22,000		
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$600,000	\$600,000		
Total Operating Costs	\$77,000	\$622,000	\$622,000	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$77,000	\$622,000	\$622,000	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities			\$8,600	\$8,600	\$8,600
Total Operating Impact	\$0	\$0	\$8,600	\$8,600	\$8,600

CAPITAL PROJECT REQUEST FORM

Department: City Manager's Office		Project Type: Municipal Buildings (BLD)	
New/Replacement: New - Non-Existing		Core Business: Act as a Catalyst for a Strong Local Economy and Diverse Tax Base	
Project Title: Community Entrance Signs		Project Number (if previous project): BLD-18-002	
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2016 Welcome Sign Concepts and Location Study by City Staff Preliminary Design by Landscaping Consultants, Inc.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>After completion, the two signs will require electric service and a minor amount of landscaping maintenance each year.</p>			
Project Estimate Completed By:	Snyder & Associates, Inc.	Date:	9/8/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$25,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$296,000	\$50,000	\$50,000	\$50,000	\$50,000
Total Operating Costs	\$321,000	\$50,000	\$50,000	\$50,000	\$50,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$321,000	\$50,000	\$50,000	\$50,000	\$50,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$500	\$500	\$500	\$500
Utilities		\$300	\$300	\$300	\$300
Total Operating Impact	\$0	\$800	\$800	\$800	\$800

CAPITAL PROJECT REQUEST FORM

Department: City Manager's Office	Project Type: Municipal Buildings (BLD)		
New/Replacement: New - Non-Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle		
Project Title: Senior Center	Project Number (if previous project): BLD-18-003		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Management Team	Date:	11/18/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$315,000	\$25,000			
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$3,750,000			
Total Operating Costs	\$315,000	\$3,775,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions		\$1,000,000			
Polk County Grants		\$1,000,000			
State of Iowa Grants					
Federal Grants					
Proceeds from 211 SW Walnut		\$679,000			
Total Outside Funding	\$0	\$2,679,000	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$315,000	\$1,096,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs			\$15,000	\$15,000	\$15,000
Utilities					
Total Operating Impact	\$0	\$0	\$15,000	\$15,000	\$15,000

CAPITAL PROJECT REQUEST FORM

Department: City Manager	Project Type: Municipal Buildings (BLD)		
New/Replacement: Replacement - Poor	Core Business: Provide Sound Governance and Management of City Resources		
Project Title: HVAC Replacement – City Hall	Project Number (if previous project): BLD-18-004		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment: 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.			
Strategy, Plan or Study:	City Facilities Needs Study by OPN Architects (October 2015)		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: 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.			
Project Estimate Completed By:	City Manager Staff	Date:	12/5/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering			\$25,000		
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment			\$375,000		
Installation			\$100,000		
Total Operating Costs	\$0	\$0	\$500,000	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$500,000	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Bridge/Box Culvert (BRG)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NE Delaware Avenue Pedestrian Bridge and Sidewalk Connection	Project Number (if previous project): BRG-14-002		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2009 Safe Routes to School Study; 2017 NE Delaware Avenue Trail Connection Study		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Ahrens and Mueller) and Snyder & Associates	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$80,000	\$20,000			
Planning/Study					
Legal & Recording					
Easements/Land	\$20,000				
Equipment					
Construction	\$600,000	\$200,000			
Total Operating Costs	\$700,000	\$220,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants (TAP)	\$150,000				
Other:					
Total Outside Funding	\$150,000	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$550,000	\$220,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs			\$250	\$250	\$250
Utilities					
Total Operating Impact	\$0	\$0	\$250	\$250	\$250

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Bridge/Box Culvert (BRG)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NE 54 th Street Bridge Replacement and Trail Connection	Project Number (if previous project): BRG-15-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2016 Annual Bridge Inspection Program and 2010 Comprehensive Plan (in-filling of trails to promote better pedestrian access)		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Lust) and Calhoun-Burns, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$100,000	\$100,000			
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$975,000			
Total Operating Costs	\$100,000	\$1,075,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants		\$400,000			
Other:					
Total Outside Funding	\$0	\$400,000	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$100,000	\$675,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Bridge/Box Culvert (BRG)	
New/Replacement: New - Non-Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: NE Four Mile Drive RCB Culvert for Deer Creek		Project Number (if previous project): BRG-17-001	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:		Support new development	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Public Works (Lust) and Kirkham Michael & Associates, Inc.	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$75,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$900,000				
Total Operating Costs	\$975,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$975,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Corridor Development (COR)	
New/Replacement: New - Non-Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: SW Plaza Parkway and SW College Avenue Extension		Project Number (if previous project): COR-15-001	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:		Prairie Trail Master Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Public Works (Ahrens) Nilles Associates, Inc.	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$330,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Street Lighting	\$105,000				
Construction	\$2,025,000				
Total Operating Costs	\$2,460,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$2,460,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$1,300	\$1,300	\$1,300	\$1,300
Utilities		\$2,000	\$2,000	\$2,000	\$2,000
Total Operating Impact	\$0	\$3,300	\$3,300	\$3,300	\$3,300

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Corridor Development (COR)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: SW Des Moines Street Trunk Sewer - SW Magazine Road to SW Elm Street	Project Number (if previous project): COR-16-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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).			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Clark) Nilles	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$69,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$345,000				
Total Operating Costs	\$414,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$414,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$3,600				
Maintenance Costs					
Utilities					
Total Operating Impact	\$3,600	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Corridor Development (COR)	
New/Replacement: New - Non-Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: SW Des Moines Street - SW Prairie Trail Parkway to SW Magazine Road		Project Number (if previous project): COR-16-004	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:		Prairie Trail Master Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Public Works (Ahrens) Nilles Associates, Inc.	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$390,000	\$260,000			
Planning/Study					
Legal & Recording					
Easements/Land					
Street Lighting		\$225,000			
Construction		\$4,425,000			
Total Operating Costs	\$390,000	\$4,910,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$390,000	\$4,910,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs			\$2,000	\$2,000	\$2,000
Utilities			\$4,500	\$4,500	\$4,500
Total Operating Impact	\$0	\$0	\$6,500	\$6,500	\$6,500

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Corridor Development (COR)	
New/Replacement: New - Non-Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: The District at Prairie Trail – SW Market Street		Project Number (if previous project): COR-17-002	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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 16 th 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.			
Strategy, Plan or Study:		Prairie Trail Master Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Public Works (Ahrens) Nilles Associates, Inc.	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$90,000				
Planning/Study					
Legal & Recording					
Easements/Land					
City-Supplied Lighting Materials	\$25,000				
Construction	\$1,125,000				
Total Operating Costs	\$1,240,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$1,240,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$700	\$700	\$700	\$700
Utilities		\$1,300	\$1,300	\$1,300	\$1,300
Total Operating Impact	\$0	\$2,000	\$2,000	\$2,000	\$2,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Corridor Development (COR)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: SW Prairie Trail Parkway Sidewalk Improvements	Project Number (if previous project): COR-17-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: 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.			
Strategy, Plan or Study:	Prairie Trail Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: The added 8-ft sidewalk will increase maintenance costs for the City due to the additional winter maintenance that will be required.			
Project Estimate Completed By:	Public Works (Bryant)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$125,000				
Total Operating Costs	\$125,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$125,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$250	\$250	\$250	\$250
Utilities					
Total Operating Impact	\$0	\$250	\$250	\$250	\$250

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Corridor Development (COR)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: SW State Street and SW Magazine Road Intersection Improvements	Project Number (if previous project): COR-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2017 The District at Prairie Trail Traffic Study		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Ahrens) Nilles Associates Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$100,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$550,000				
Total Operating Costs	\$650,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$650,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$150	\$150	\$150	\$150
Utilities					
Total Operating Impact	\$0	\$150	\$150	\$150	\$150

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Corridor Development (COR)	
New/Replacement: New - Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: SW State Street Median Study		Project Number (if previous project): COR-18-002	
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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 16 th Street.			
Strategy, Plan or Study:		Since SW State Street bisects the Prairie Trail development, the master developer for Prairie Trail would be involved in the study.	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
Since this is a study and no construction is being programmed at this time, there is not an operating impact.			
Project Estimate Completed By:		Public Works (Mueller)	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study		\$25,000			
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$0	\$25,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$25,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)
New/Replacement: New - Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle
Project Title: Annual Park Development Program	Project Number (if previous project): PRK-00-002
New Project or Change to Previous Project - Change to Previous Project	
Technical Description of Project/Equipment:	
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.	
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<u>2018</u> <ul style="list-style-type: none"> • Deer Creek Park Development - Phase I: Playground and Parking Lot 	
<u>2019</u> <ul style="list-style-type: none"> • Deer Creek Park Development - Phase II: Trail Loop/Shelter/Basketball Court 	
<u>2020</u> <ul style="list-style-type: none"> • Wildflower Park Turf Development and Shelter – pending detention basin assessment/survey • Swings at Otter Creek Park • Shelter at White Birch Park • Fishing Pier at Hawkeye Park • Otter Creek Park Ball Diamond Installation 	
<u>2021</u> <ul style="list-style-type: none"> • Other Projects TBD based on park dedication, development funding and pace of development 	
Operating Impact:	
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.	
Project Estimate Completed By:	City Staff
Date:	10/23/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Total Operating Costs	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs	\$1,000				
Utilities					
Total Operating Impact	\$1,000	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation		Project Type: Park Facilities (PRK)	
New/Replacement: New - Existing		Core Business: Provide Places and Programs for an Active and Healthy Lifestyle	
Project Title: Prairie Ridge Sports Complex - Field Lighting		Project Number (if previous project): PRK-09-001	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Add additional sports field lighting to Prairie Ridge Sports Complex fields #45 and #46			
Strategy, Plan or Study:		Prairie Ridge Master Plan/Parks Comprehensive Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Musco Sports Field Lighting	Date: 10/17/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$190,000				
Total Operating Costs	\$190,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:	\$95,000				
Total Outside Funding	\$95,000	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$95,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Utilities	\$2,400	\$2,400	\$2,400	\$2,400	\$2,400
Total Operating Impact	\$3,900	\$3,900	\$3,900	\$3,900	\$3,900

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)		
New/Replacement: New - Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle		
Project Title: Ankeny Market & Pavilion	Project Number (if previous project): PRK-13-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	High Trestle Trail Master Plan; Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
Installation of the restroom and construction of the bike plaza will result in additional operating and maintenance costs of \$8,000 annually.			
Project Estimate Completed By:	Shive-Hattery	Date:	10/17/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$3,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$93,311				
Total Operating Costs	\$96,311	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants	\$4,291				
Federal Grants					
Other:	\$92,020				
Total Outside Funding	\$96,311	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
Utilities	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Total Operating Impact	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation		Project Type: Park Facilities (PRK)	
New/Replacement: New - Existing		Core Business: Provide Places and Programs for an Active and Healthy Lifestyle	
Project Title: Hawkeye Park Sports Complex - Field Lighting		Project Number (if previous project): PRK-13-002	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:		Parks & Facilities Comprehensive Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
The sports field lighting project would be cost shared with the City's Hotel/Motel Tax Fund contributing \$205,000. 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.			
Operating Impact:			
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).			
Project Estimate Completed By:		Musco Lighting	Date: 11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$275,000				
Total Operating Costs	\$275,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$275,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs	-\$2,400	-\$2,400	-\$2,400	-\$2,400	-\$2,400
Utilities	-\$2,300	-\$2,300	-\$2,300	-\$2,300	-\$2,300
Total Operating Impact	-\$4,700	-\$4,700	-\$4,700	-\$4,700	-\$4,700

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)		
New/Replacement: New - Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle		
Project Title: Prairie Ridge Sports Complex - Drainage Improvements	Project Number (if previous project): PRK-14-002		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p> <p>This will be a phased approach with renovating and re-establishing safe and durable playing surfaces.</p> <p>2018 – Field #31 2019 – Field #32</p>			
Strategy, Plan or Study:	Snyder & Associates; Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Snyder & Associates	Date:	10/17/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$76,000	\$78,000			
Total Operating Costs	\$76,000	\$78,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$76,000	\$78,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)
New/Replacement: New - Non-Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle
Project Title: Prairie Ridge Sports Complex - Tee Ball Field	Project Number (if previous project): PRK-17-001
New Project or Change to Previous Project - Change to Previous Project	
Technical Description of Project/Equipment:	
Add an additional tee ball field to the Prairie Ridge Sports Complex.	
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>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.</p> <p>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.</p>	
Operating Impact:	
The construction of an additional tee ball field will increase operating and maintenance costs by \$2,500 annually.	
Project Estimate Completed By:	Snyder & Associates
Date:	10/17/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$18,000			
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$136,000			
Total Operating Costs	\$0	\$154,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$154,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$2,500	\$2,500	\$2,500	\$2,500
Utilities					
Total Operating Impact	\$0	\$2,500	\$2,500	\$2,500	\$2,500

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)
New/Replacement: Replacement - Poor	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle
Project Title: Older Parks Renovation Plan	Project Number (if previous project): PRK 17-003
New Project or Change to Previous Project - Change to Previous Project	
Technical Description of Project/Equipment:	
<p>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.</p> <p>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.</p>	
Strategy, Plan or Study:	2016 Older Parks & Renovations Plan
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>2018 Renovation Projects Include*:</p> <ul style="list-style-type: none"> • East parking lot addition at Crestbruck \$135,000 • Replace basketball court at Glenbrooke 40,000 • Remodel restrooms at Sunset 75,000 • Replace interior trail at Village Park - Phase I 65,000 • Replace outlet structure at Wildflower Park 50,000 <p>2019 Renovation Projects Include:</p> <ul style="list-style-type: none"> • Replace trail at Crestbruck \$200,000 • Parking lot extension at Glenbrooke 22,000 • Replace interior trail at Village - Phase II 65,000 • Resurface parking lot at Heritage 99,000 • Overlay parking lot at Sunset 15,000 • Add pedestrian trail loop at Wildflower 60,000 • Add shelter at Wildflower 25,000 • Sunset Park ball diamond renovations 25,000 • Sunrise Park ball diamond renovations 25,000 <p>*Please note that some of the smaller improvements will be added into the Parks’ Division operating budget.</p>	
Operating Impact:	
<p>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.</p>	
Project Estimate Completed By:	City Staff
Date:	10/23/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$375,800	\$536,000			
Total Operating Costs	\$375,800	\$536,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$375,800	\$536,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs	\$1,000				
Utilities					
Total Operating Impact	\$1,000	\$0	\$0	\$0	\$0

OLDER PARKS CONDITION & RENOVATION PLAN	
2018	COST
East parking lot addition at Crestbruck	\$135,000
Replace basketball court at Glenbrooke	\$40,000
Replace security lighting at Heritage	\$800
Repair trail panels at Michael	\$1,200
Remodel restrooms at Sunset	\$75,000
Replace drinking fountain at Sunset	\$3,000
Replace interior trail at Village - Phase I	\$65,000
Update park benches at Westside	\$2,400
Replace park sign at Westside	\$3,600
Add cattail treatment at Wildflower	\$1,800
Replace outlet structure at Wildflower Park	\$50,000
Total	\$375,800
2019	COST
Replace trail at Crestbruck	\$200,000
Parking lot extension at Glenbrooke	\$22,000
Replace interior trail at Village - Phase II	\$65,000
Resurface parking lot at Heritage	\$99,000
Overlay parking lot at Sunset	\$15,000
Add pedestrian trail loop at Wildflower	\$60,000
Add shelter at Wildflower	\$25,000
Sunset Park ball diamond renovation	\$25,000
Sunrise Park ball diamond renovation	\$25,000
Total	\$536,000
Grand Total (2018 & 2019)	
	\$911,800

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)
New/Replacement: New - Non-Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle
Project Title: High Trestle Trail Trailhead and Parking Lot	Project Number (if previous project): PRK-18-001
New Project or Change to Previous Project - New Project	
Technical Description of Project/Equipment:	
High Trestle Trail Trailhead and Parking Lot – NW Ankeny	
Strategy, Plan or Study:	Parkland 6(f) Conversion Requirements
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>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.</p>	
Operating Impact:	
<p>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.</p>	
Project Estimate Completed By:	City Staff
Date:	10/23/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction			\$130,000		
Total Operating Costs	\$0	\$0	\$130,000	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$130,000	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs			\$1,500	\$1,500	\$1,500
Utilities					
Total Operating Impact	\$0	\$0	\$1,500	\$1,500	\$1,500

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)
New/Replacement: New - Non-Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle
Project Title: Otter Creek Golf Course Patio Addition	Project Number (if previous project): PRK-18-002
New Project or Change to Previous Project - New Project	
Technical Description of Project/Equipment:	
<p>Enlarge existing west patio to make room for wedding ceremonies and banquets during the summer, spring, and fall months.</p>	
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
Operating Impact:	
<p>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.</p>	
Project Estimate Completed By:	Snyder & Associates
Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$13,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$50,000				
Total Operating Costs	\$63,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$63,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$0				
Maintenance Costs	\$500	\$500	\$500	\$500	\$500
Utilities	\$0				
Total Operating Impact	\$500	\$500	\$500	\$500	\$500

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Park Facilities (PRK)		
New/Replacement: Replacement - Fair	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle		
Project Title: Hawkeye Park Tennis Courts Replacement	Project Number (if previous project): PRK-18-003		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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 Citizen Center in Hawkeye Park. Improvements include grading, drainage work, specialty court surfacing, nets, fencing, lighting, and associated improvements.			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Nick Lenox (S&A Concept Estimating)	Date:	11/20/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$70,000			
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment (Lighting)		\$130,000			
Construction		\$530,000			
Total Operating Costs	\$0	\$730,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$730,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Sidewalks/Trails (SDW)	
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: Annual Sidewalk/Trail Construction Program	Project Number (if previous project): SDW-00-001	
New Project or Change to Previous Project - Change to Previous Project		
Technical Description of Project/Equipment:		
<p>This program includes constructing pedestrian improvements adjacent to City streets:</p> <ul style="list-style-type: none"> • 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 • 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 		
Strategy, Plan or Study:	Ankeny 2010 Comprehensive Plan, Parks Department Trail Planning Map, and ADA Transition Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:		
<p>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.</p>		
Operating Impact:		
<p>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.</p>		
Project Estimate Completed By:	Public Works (Okerlund)	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$23,500	\$30,000			
Planning/Study					
Legal & Recording					
Easements/Land	\$1,500	\$40,000			
Equipment					
Construction	\$430,000	\$405,000	\$350,000	\$200,000	\$200,000
Total Operating Costs	\$455,000	\$475,000	\$350,000	\$200,000	\$200,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$455,000	\$475,000	\$350,000	\$200,000	\$200,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$700	\$1,400	\$2,100	\$2,800
Utilities					
Total Operating Impact	\$0	\$700	\$1,400	\$2,100	\$2,800

CAPITAL PROJECT REQUEST FORM

Department: Parks & Recreation	Project Type: Sidewalks/Trails (SDW)		
New/Replacement: New - Non-Existing	Core Business: Provide Places and Programs for an Active and Healthy Lifestyle		
Project Title: High Trestle Trail Extension - SW Ordnance Road to SE Oralabor Road	Project Number (if previous project): SDW-16-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Construction of 1.65 miles of 10' PCC recreation trail along the High Trestle Trail corridor from the trail's current terminus at SW Ordnance Road, ultimately connecting directly to the Oralabor Gateway Trail/Gay Lea Wilson Trail located just south of SE Oralabor Road.			
Strategy, Plan or Study:	MPO Trail Gaps Map; 2010 Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
The extension of the trail is proposed in two phases. The first phase is to extend the trail from its current terminus at Ordnance 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.			
Operating Impact:			
The addition of the trail extension will increase operating and maintenance costs by \$1,650 annually.			
Project Estimate Completed By:	Snyder & Associates; City Staff	Date:	10/23/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$120,000	\$60,000	\$120,000	\$60,000	
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$1,200,000		\$1,200,000	
Total Operating Costs	\$120,000	\$1,260,000	\$120,000	\$1,260,000	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants		\$200,000		\$200,000	
Federal Grants		\$100,000		\$150,000	
Other:		\$300,000		\$200,000	
Total Outside Funding	\$0	\$600,000	\$0	\$550,000	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$120,000	\$660,000	\$120,000	\$710,000	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$650	\$650	\$1,650	\$1,650
Utilities					
Total Operating Impact	\$0	\$650	\$650	\$1,650	\$1,650

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Sidewalks/Trails (SDW)	
New/Replacement: New - Non-Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: SE Delaware Avenue Sidewalk Connection		Project Number (if previous project): SDW-17-002	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
This project includes the construction of 5-ft wide sidewalk along the east side of SE Delaware Avenue from 425 to 605 SE Delaware Avenue. The project involves removing and replacing approximately 200 feet of retaining wall, reconstructing three (3) residential driveways, removing approximately 12 trees with property owner compensation, and acquisition of temporary construction easements.			
Strategy, Plan or Study:		Sidewalk Connectivity	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
The purpose of this project is to eliminate a lengthy gap in the sidewalk along the east side of the SE Delaware Avenue, which is an arterial street. There has been an increase in multi-family residential development during the past several years on the east side of SE Delaware Avenue, and this is the final segment of sidewalk that needs to be installed to provide a continuous sidewalk on the east side of the street. The project should improve pedestrian safety by reducing the pedestrian crossings of SE Delaware Avenue due to the existing sidewalk gap. The project may also reduce vehicular traffic on SE Delaware Avenue because the corridor will be more walkable.			
Operating Impact:			
The operating impact for this project will be negligible because the adjacent property owner(s) will be responsible for maintaining the 5-ft sidewalk.			
Project Estimate Completed By:		Public Works (Ahrens)	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$15,000			
Planning/Study					
Legal & Recording					
Easements/Land		\$20,000			
Equipment					
Construction		\$115,000			
Total Operating Costs	\$0	\$150,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$150,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Sidewalks/Trails (SDW)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NE Frisk Drive Sidewalk Connection	Project Number (if previous project): SDW-18-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
This project includes the construction of approximately 700 feet of 5-ft wide sidewalk along the frontage of 9855 NE Frisk Drive. The project includes grading, sidewalk construction, driveway reconstruction, drainage improvements and the acquisition of a temporary construction easement. This project will be designed by in-house engineering staff.			
Strategy, Plan or Study:	Sidewalk Connectivity		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
The purpose of this project is to eliminate a lengthy gap in the sidewalk along the east side of NE Frisk Drive between NE Chambers Parkway and NE 18th Street. This will provide a continuous sidewalk loop throughout the Deer Creek development and increase safety because pedestrians currently walk on NE Frisk Drive around the sidewalk gap.			
Operating Impact:			
The operating impact for this project will be negligible because the adjacent property owner will be responsible for maintaining the 5-ft sidewalk.			
Project Estimate Completed By:	Public Works (Ahrens)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land	\$2,000				
Equipment					
Construction	\$73,000				
Total Operating Costs	\$75,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$75,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Sanitary Sewers (SNS)		
New/Replacement: Replacement - Poor	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Annual Sanitary Sewer Replacement Program	Project Number (if previous project): SNS-00-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>Annual allocation of capital improvement funds for repair and replacement of sanitary sewers and structures. Specific projects for 2018 to 2022 include:</p> <ul style="list-style-type: none"> • 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 • 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) • 1/3 NW Northlawn Area Utility Improvements (4 phases): 2019 - \$42,000 (design); 2020 - \$40,000 (design) \$460,000 (construct); 2021 - \$35,000 (design) \$450,000 (construct); 2022 - \$35,000 (design) \$380,000 (construct); 2023 - \$370,000 (construct) 			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager)	Date:	11/1/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$30,000	\$72,000	\$40,000	\$35,000	\$35,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$645,000	\$1,010,000	\$1,025,000	\$685,000	\$615,000
Total Operating Costs	\$675,000	\$1,082,000	\$1,065,000	\$720,000	\$650,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$675,000	\$1,082,000	\$1,065,000	\$720,000	\$650,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$23,000	\$23,500	\$24,000	\$24,500	\$25,000
Maintenance Costs					
Utilities	\$200	\$200	\$200	\$200	\$200
Total Operating Impact	\$23,200	\$23,700	\$24,200	\$24,700	\$25,200

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Sanitary Sewers (SNS)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Otter Creek Trunk Sewer – Phase 3	Project Number (if previous project): SNS-11-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: Approximately 2,700 LF of 24" diameter and 2,500 LF of 18" diameter trunk sewer from the end of the existing Otter Creek Trunk 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 36 th Street.			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: 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.			
Project Estimate Completed By:	Municipal Utilities (Wedell)	Date:	10/16/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering				\$80,000	\$80,000
Planning/Study					
Legal & Recording					
Easements/Land				\$180,000	
Equipment					
Construction					\$1,160,000
Total Operating Costs	\$0	\$0	\$0	\$260,000	\$1,240,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$260,000	\$1,240,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs				\$3,800	\$4,800
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$3,800	\$4,800

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Sanitary Sewers (SNS)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Otter Creek Trunk Sewer – Phase 4	Project Number (if previous project): SNS-12-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: Approximately 3,300 LF of 24" diameter sanitary trunk sewer from the north end of Otter Creek Trunk Sewer – Phase 3 north to NE 54 th Street along NE Four Mile Drive.			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: 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.			
Project Estimate Completed By:	Municipal Utilities (Wedell)	Date:	10/16/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$50,000
Planning/Study					
Legal & Recording					
Easements/Land					\$100,000
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$150,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$150,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					\$3,000
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$3,000

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Sanitary Sewers (SNS)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Deer Creek Trunk Sewer	Project Number (if previous project): SNS-17-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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 18 th Street/NE 102 nd Avenue (County).			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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).			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Hayden) CDA	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$60,000	\$75,000			
Planning/Study					
Legal & Recording					
Easements/Land	\$140,000				
Equipment					
Construction	\$1,275,000	\$1,025,000			
Total Operating Costs	\$1,475,000	\$1,100,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$1,475,000	\$1,100,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$6,600	\$6,600			
Maintenance Costs					
Utilities					
Total Operating Impact	\$6,600	\$6,600	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Sanitary Sewers (SNS)		
New/Replacement: Replacement - Poor	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: SE Delaware Bank Stabilization	Project Number (if previous project): SNS-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Municipal Utilities (Hayden, Clark) JEO	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$75,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$250,000				
Total Operating Costs	\$325,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$325,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$7,000				
Maintenance Costs					
Utilities					
Total Operating Impact	\$7,000	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Sanitary Sewers (SNS)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Sanitary Sewer Study and Master Plan	Project Number (if previous project): SNS-18-002		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan & 2017 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study	\$225,000				
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$225,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$225,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$30,000				
Maintenance Costs					
Utilities					
Total Operating Impact	\$30,000	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Stormwater Facilities (STM)		
New/Replacement: New - Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Annual Storm Water Replacement Program	Project Number (if previous project): STM-00-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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:</p> <p>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</p>			
Strategy, Plan or Study:	NA		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Bryant)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$270,000	\$250,000	\$250,000	\$250,000	\$250,000
Total Operating Costs	\$270,000	\$250,000	\$250,000	\$250,000	\$250,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$270,000	\$250,000	\$250,000	\$250,000	\$250,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$2,000	-\$4,000	-\$6,000	-\$8,000
Utilities					
Total Operating Impact	\$0	-\$2,000	-\$4,000	-\$6,000	-\$8,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Stormwater Facilities (STM)		
New/Replacement: New - Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Saylor Creek Tributary Channel Improvements	Project Number (if previous project): STM-17-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	Tradition Park Storm Water Remediation Study, HR Green and AES, Inc., 2016		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Bryant)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$150,000	\$50,000		
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction			\$600,000		
Total Operating Costs	\$0	\$150,000	\$650,000	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$150,000	\$650,000	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs				-\$1,000	-\$1,000
Utilities					
Total Operating Impact	\$0	\$0	\$0	-\$1,000	-\$1,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Stormwater Facilities (STM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: SE Peterson Drive & SE Trilein Drive Storm Sewer Improvements	Project Number (if previous project): STM-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	SE East Lawn Area Utility Improvements Storm Water Management Plan (Civil Design Advantage, 2017)		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Okerlund)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$25,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$525,000				
Total Operating Costs	\$550,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$550,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$250	-\$500	-\$750	-\$750
Utilities					
Total Operating Impact	\$0	-\$250	-\$500	-\$750	-\$750

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Stormwater Facilities (STM)		
New/Replacement: New - Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Wildflower Detention Basin Improvements	Project Number (if previous project): STM-18-002		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2017 Wildflower Detention Basin Study (Snyder & Associates), 2015 Public Storm Water Detention Basin Study (AES/HR Green)		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
The project will improve the functionality of the basin by replacing the structure which will decrease the frequency in which storm water overtops the emergency overflow. Increasing the water depth and basin footprint will also decrease the overtopping frequency. Improving the detention basin will improve the overall functionality of the City's storm water management system. These improvements will also decrease the quantity of storm water that gets onto to private residential property and increase the aesthetics of the basin and surrounding area.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Bryant) and Snyder & Associates, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$70,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$270,000				
Total Operating Costs	\$340,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$340,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$500	-\$500	-\$500	-\$500
Utilities					
Total Operating Impact	\$0	-\$500	-\$500	-\$500	-\$500

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: Annual PCC Street Patching Program	Project Number (if previous project): STR-00-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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:</p> <ul style="list-style-type: none"> • 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): 2019 - \$42,000 (design); 2020 - \$40,000 (design) \$460,000 (construct); 2021 - \$35,000 (design) \$450,000 (construct); 2022 - \$35,000 (design) \$380,000 (construct); 2023 - \$370,000 (construct) 			
Strategy, Plan or Study:	Snyder & Associates Pavement Management Study, dated 2008		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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 \$400,000 per year for the next five years in the table below with approximately \$150,000 allocated to arterials, \$150,000 to collectors, and \$100,000 to locals.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Okerlund)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$30,000	\$72,000	\$40,000	\$35,000	\$35,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$780,000	\$730,000	\$1,220,000	\$850,000	\$780,000
Total Operating Costs	\$810,000	\$802,000	\$1,260,000	\$885,000	\$815,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$810,000	\$802,000	\$1,260,000	\$885,000	\$815,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$12,000	-\$24,000	-\$48,000	-\$60,000
Utilities					
Total Operating Impact	\$0	-\$12,000	-\$24,000	-\$48,000	-\$60,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: Annual Asphalt Street Resurfacing Program	Project Number (if previous project): STR-00-002		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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:</p> <ul style="list-style-type: none"> • 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) • NW 8th Street, NW Polk City Drive/IA Highway 415 to NW Cypress Avenue, HMA Overlay = \$55,000 <p>Potential future projects: NW Weigel Drive, West 1st Street to NW 5th Street, HMA overlay; SW Ordnance Road HMA overlay & shoulder inlay from SW State Street to South Ankeny Boulevard (5 Phases); SW Railroad Avenue HMA overlay of gravel street; SW Ankeny Road from State to Oralabor (HMA overlay or diamond grinding); SE Four Mile Drive from Oralabor to Magazine (possible cost share with Polk County); NW 5th Street, from Weigel to Irvinedale.</p>			
Strategy, Plan or Study:	In-House Monitoring of Street Conditions by the Engineering Division		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>Significant progress has been made on overlaying existing asphalt rural roadways along the exterior of the City limits. Engineering Division staff has identified potential projects within the center of the City that could benefit from the annual HMA program by eliminating existing gravel streets & shoulders, including SW Ordnance Road from SW State Street to South Ankeny Boulevard (HMA overlay & HMA shoulder inlay with HMA driveways) and SW Railroad Avenue from SW Ordnance Road to SW Walnut Street (full-depth HMA conversion of existing gravel street).</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Okerlund)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$225,000	\$150,000	\$150,000	\$150,000	\$150,000
Total Operating Costs	\$225,000	\$150,000	\$150,000	\$150,000	\$150,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants	\$55,000				
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$55,000	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$170,000	\$150,000	\$150,000	\$150,000	\$150,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$2,000	-\$4,000	-\$6,000	-\$8,000
Utilities					
Total Operating Impact	\$0	-\$2,000	-\$4,000	-\$6,000	-\$8,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: Annual Pavement Preservation Program	Project Number (if previous project): STR-00-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2008 Pavement Management Study completed by Snyder & Associates, Inc.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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 \$250,000 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 \$100,000 of the funding would be used for pavement joint major repairs such as partial-depth repair, dowel bar retrofit, and/or joint stitching.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Lust)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Total Operating Costs	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$2,000	-\$4,000	-\$6,000	-\$8,000
Utilities					
Total Operating Impact	\$0	-\$2,000	-\$4,000	-\$6,000	-\$8,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: Annual Street Replacement Program	Project Number (if previous project): STR-00-004		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p> <ul style="list-style-type: none"> • 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 • 2019: SE 8th Street – From South Ankeny Boulevard to SE Sharon Drive (Phase 1) = \$775,000 • 2020: SE 8th Street – From South Ankeny Boulevard to SE Sharon Drive (Phase 2) = \$900,000 • 2021: NW 9th Street – From NW Irvinedale Drive to NW Cedarwood Drive (Phase 2) = \$600,000 • 2022: TBD 			
Strategy, Plan or Study:	Snyder & Associates Pavement Management Study, dated 2008		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Okerlund)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Water Main - 8" Diameter		\$150,000	\$150,000		
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$300,000	\$1,250,000	\$750,000	\$600,000	\$600,000
Total Operating Costs	\$300,000	\$1,400,000	\$900,000	\$600,000	\$600,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$300,000	\$1,400,000	\$900,000	\$600,000	\$600,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$2,000	-\$8,000	-\$12,000	-\$15,000
Utilities					
Total Operating Impact	\$0	-\$2,000	-\$8,000	-\$12,000	-\$15,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: SE Creekview Drive Drainage and Paving Improvements	Project Number (if previous project): STR-05-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	Upgrade an existing gravel road to a paved streets and improve the existing drainage.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Lust) and Snyder & Associates, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$50,000	\$50,000			
Water Main - 12" Diameter	\$425,000				
Legal & Recording		\$25,000			
Easements/Land					
Equipment					
Construction	\$475,000	\$750,000			
Total Operating Costs	\$950,000	\$825,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other: Assessment Revenue		\$250,000			
Total Outside Funding	\$0	\$250,000	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$950,000	\$575,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		-\$1,500	-\$15,000	-\$15,000	-\$15,000
Utilities					
Total Operating Impact	\$0	-\$1,500	-\$15,000	-\$15,000	-\$15,000

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: SE Creekview Drive Drainage and Paving Improvements – Water Portion	Project Number (if previous project): STR-05-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: Replacing existing undersized and aging 8” water main along SE Creekview Drive. The project would extend the 12” water main for approximately 3,700 LF from near Airgas south to SE Magazine Road and complete a loop of 12” water main and improve system flows for businesses on the east side of the interstate.			
Strategy, Plan or Study:	Upgrade an existing gravel road to a paved street, and improve the existing drainage.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: This 12” water main extension would be completed with the Public Works project that will be improving the drainage system and culverts along SE Creekview Drive in 2018 with Asphalt Paving to commence in 2019. There is a water hammer that occurs within the existing 8” main anytime that the concrete batch plants are using water for their product and upsizing this main would eliminate the hammer and protect the remainder of the water system from damage from the hammering it experiences today.			
Operating Impact: The operating impact for this project would reduce maintenance from water main breaks in this area from the water hammer. Approximately 150 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves and locating services. It will take almost 110,000 gallons to fill and flush the new main.			
Project Estimate Completed By:	Municipal Utilities (Clark & Lust)	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$425,000				
Total Operating Costs	\$425,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$425,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$9,000				
Maintenance Costs					
Utilities	\$250				
Total Operating Impact	\$9,250	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Streets and Alleys (STR)	
New/Replacement: Replacement - Fair		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: East 1 st Street and I-35 Interchange Reconstruction		Project Number (if previous project): STR-11-004	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Reconstruction of the East 1 st Street and Interstate 35 interchange into a diverging diamond and the widening of Interstate 35 to a 6-lane section between East 1 st Street and NE 36 th 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.			
Strategy, Plan or Study:		FHWA and Iowa DOT approved IJR in 2008 and IJR amendment in 2014	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Public Works (Lust) and Snyder & Associates, Inc.	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$65,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment			\$200,000		
Construction		\$1,419,666	\$866,666	\$666,667	
Total Operating Costs	\$65,000	\$1,419,666	\$1,066,666	\$666,667	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$65,000	\$1,419,666	\$1,066,666	\$666,667	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs				\$2,500	\$2,500
Utilities				\$5,500	\$5,500
Total Operating Impact	\$0	\$0	\$0	\$8,000	\$8,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW Irvinedale Drive & NW 5 th Street Intersection Improvements	Project Number (if previous project): STR-14-005		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	Support for arterial street traffic capacity and safety improvements.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Lust) and HR Green, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$300,000				
Water Main - 24" Transmission	\$300,000				
Sanitary Sewer - 8" Diameter	\$50,000				
Legal & Recording	\$5,000				
Easements/Land	\$20,000				
Streetlighting (12 @ \$6,250 each)	\$75,000				
Construction	\$2,150,000				
Total Operating Costs	\$2,900,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$2,900,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$400	\$400	\$400	\$400
Utilities		\$900	\$900	\$900	\$900

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW Irvinedale Drive Corridor Improvements – Water Portion	Project Number (if previous project): STR-14-005		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
This project will include approximately 1,600 LF of 24” new water main from just north of West 1 st Street to just south of NW 9 th Street along the east side of NW Irvinedale Drive.			
Strategy, Plan or Study:	Support for arterial street traffic capacity and safety improvements.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
Since Public Works was planning to reconstruct this entire intersection and this area is part of the Transmission Main along NW Irvinedale Drive from West 1st Street to NW 18th Street Project that is planned for 2021 construction, it was decided to include 24” water main throughout the limits of the intersection reconstruction project. The 24” water main is in the CIP for design in 2020 and construction in 2021 and it is also following the 2016 Water System Master Plan.			
Operating Impact:			
This project will take approximately 100 staff hours during construction for de-chlorinating, pressure testing, operating valves, and locating services. It will take about 190,000 gallons to fill and flush the new main.			
Project Estimate Completed By:	Municipal Utilities (Clark, Lust) and HR Green, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Water Main - 24" Transmission	\$300,000				
Sanitary Sewer - 8" Diameter					
Legal & Recording					
Easements/Land					
Streetlighting (12 @ \$6,250 each)					
Construction					
Total Operating Costs	\$300,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$300,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$4,500				
Maintenance Costs					
Utilities	\$400				
Total Operating Impact	\$4,900	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW Irvinedale Drive Corridor Improvements - Sewer Portion	Project Number (if previous project): STR-14-005		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
This project will include approximately 300 LF of new 8" sanitary sewer along the south side of NW 5 th Street from the trunk sewer on the west end to just west of NW Irvinedale Drive.			
Strategy, Plan or Study:	Support for arterial street traffic capacity and safety improvements.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
Since Public Works was planning to reconstruct this entire intersection, it was decided to include new 8" sanitary sewer to provide gravity sanitary sewer service to 2 existing residents that are currently on septic sewer within City limits.			
Operating Impact:			
This project will take approximately 40 staff hours including reviewing the construction plans, fielding questions during the design phase, and reviewing the initial construction inspection report, and field inspections during construction.			
Project Estimate Completed By:	Municipal Utilities (Clark, Lust) and HR Green, Inc.	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Water Main - 24" Transmission					
Sanitary Sewer - 8" Diameter	\$50,000				
Legal & Recording					
Easements/Land					
Streetlighting (12 @ \$6,250 each)					
Construction					
Total Operating Costs	\$50,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$50,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$2,500				
Maintenance Costs					
Utilities					
Total Operating Impact	\$2,500	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	Project Number (if previous project): STR-14-006		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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 5 th Street to NE 18 th Street. The project also includes a new permanent traffic signal at the NE Delaware Avenue and NE 18 th Street intersection, fiber optic interconnect from the new traffic signal at NE 18 th Street south to East 1 st Street, and upsizing the existing reinforced concrete box culvert to a triple 12 feet x 8 feet RCB.			
Strategy, Plan or Study:	2013 Traffic Study by Snyder & Associates		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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 streetlighting.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Lust) and Snyder & Associates, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering			\$100,000	\$225,000	\$450,000
Planning/Study					
Legal & Recording					
Easements/Land				\$75,000	\$100,000
Streetlighting					\$100,000
Construction					\$4,025,000
Total Operating Costs	\$0	\$0	\$100,000	\$300,000	\$4,675,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$100,000	\$300,000	\$4,675,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Streets and Alleys (STR)	
New/Replacement: New - Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: Ankeny Boulevard and 1 st Street Intersection Improvements		Project Number (if previous project): STR-15-001	
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Paving, median, pedestrian ramp, pavement marking, and traffic signal improvements at all four approaches to the Ankeny Boulevard (U.S. Highway 69) and 1 st 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 1 st Street and at each corner of the intersection.			
Strategy, Plan or Study:		2015 Ankeny Boulevard and 1st Street Intersection Study; 2017 North Ankeny Boulevard Landscaping Improvements Concept Plan	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Public Works (Lust) and Snyder & Associates, Inc.	Date: 11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$75,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$775,000				
Total Operating Costs	\$850,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants	\$500,000				
Federal Grants					
Other:					
Total Outside Funding	\$500,000	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$350,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$0	\$0	\$0	\$0
Utilities		\$200	\$200	\$200	\$200
Total Operating Impact	\$0	\$200	\$200	\$200	\$200

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Fair	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Pkwy Intersection Improvements	Project Number (if previous project): STR-16-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	Support the surrounding infrastructure for Ankeny Schools Elementary #11		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Lust) and Snyder & Associates, Inc.	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$275,000	\$175,000			
Water Main: 12" Diameter		\$75,000			
Water Main: 24" Diameter		\$25,000			
Easements/Land					
Streetlights (15 Lights @ \$6,500)		\$100,000			
Construction		\$2,725,000			
Total Operating Costs	\$275,000	\$3,100,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants		\$200,000			
Federal Grants					
Other:					
Total Outside Funding	\$0	\$200,000	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$275,000	\$2,900,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs			\$400	\$400	\$400
Utilities			\$2,200	\$2,200	\$2,200
Total Operating Impact	\$0	\$0	\$2,600	\$2,600	\$2,600

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: South Ankeny Boulevard and SE Shurfine Drive/SW Prairie Trail Parkway Intersection Improvements - Water Portion	Project Number (if previous project): STR-16-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Installation of approximately 700 LF of new 12" water main from future SW Prairie Trail Parkway south along the west side of South Ankeny Boulevard to the north side of the DMACC property will loop our 12" main removing the existing dead ends. A new 24" diameter water main is also going to be installed with this project under the future SW Prairie Trail Parkway so we would not have to bore under it in the future as part of the extension of the 24" water main from the Polk County Pump Station to Ash Tower.			
Strategy, Plan or Study:	Support the surrounding infrastructure for Ankeny Schools Elementary #11		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
This additional 12" water main will close a gap in our 12" water main network which will also provide businesses and residents better fire flows and more than one source of water in the event of a main break. We are also including a section of 24" water main under the future SW Prairie Trail Parkway to reduce the cost of the future project outlined within the HDR 2016 Water System Master Plan for 2023.			
Operating Impact:			
Having a redundant water system would increase the number of residents and businesses that are able to maintain water service in the event of a main break. Installation of a section of 24" water main under the future SW Prairie Trail Parkway will eliminate the need to bore under the street when this project occurs. Approximately 100 staff hours will be needed during construction for de-chlorinating, pressure testing, operating valves and locating services. It will take almost 40,000 gallons to fill and flush the new main.			
Project Estimate Completed By:	Municipal Utilities (Clark, Lust)	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$100,000			
Total Operating Costs	\$0	\$100,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$100,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs		\$4,500			
Maintenance Costs					
Utilities		\$100			
Total Operating Impact	\$0	\$4,600	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW 18th Street Extension - NW Weigel Drive to NW Abbie Drive	Project Number (if previous project): STR-16-002		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Extension of NW 18 th 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.			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Okerlund)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$50,000	\$290,000	\$250,000	
Planning/Study					
Legal & Recording					
Easements/Land			\$60,000		
Equipment					
Construction				\$3,300,000	
Total Operating Costs	\$0	\$50,000	\$350,000	\$3,550,000	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$50,000	\$350,000	\$3,550,000	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					-\$9,000
Utilities					\$2,000
Total Operating Impact	\$0	\$0	\$0	\$0	-\$7,000

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: Replacement - Poor	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	Project Number (if previous project): STR-16-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Ahrens)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$210,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$210,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$210,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: West 1 st Street Widening & Improvements – Phase 1	Project Number (if previous project): STR-16-004		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Lust)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$100,000	\$550,000	\$200,000	\$200,000	
Planning/Study					
Legal & Recording					
Easements/Land		\$50,000			
Streetlights (8 in 2020 and 8 in 2021)			\$50,000	\$50,000	
Construction			\$2,650,000	\$2,650,000	
Total Operating Costs	\$100,000	\$600,000	\$2,900,000	\$2,900,000	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants			\$750,000	\$630,000	
Other:					
Total Outside Funding	\$0	\$0	\$750,000	\$630,000	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$100,000	\$600,000	\$2,150,000	\$2,270,000	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs				\$350	\$700
Utilities				\$1,200	\$2,400
Total Operating Impact	\$0	\$0	\$0	\$1,550	\$3,100

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: North Ankeny Boulevard Landscaping Improvements	Project Number (if previous project): STR-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
Remove existing landscaping in the medians on North Ankeny Boulevard/U.S. Highway 69 from north of 1 st Street to 18 th 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 5 th Street, 9 th Street, 11 th Street, and 18 th 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.			
Strategy, Plan or Study:	2017 North Ankeny Boulevard Landscaping Improvements Concept Plan by Snyder & Associates		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Mueller)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$50,000	\$70,000	\$20,000	
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction			\$350,000	\$350,000	
Total Operating Costs	\$0	\$50,000	\$420,000	\$370,000	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$50,000	\$420,000	\$370,000	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs				\$750	\$1,500
Utilities				\$500	\$1,000
Total Operating Impact	\$0	\$0	\$0	\$1,250	\$2,500

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW 36 th Street and NW Ash Drive Interim Improvements	Project Number (if previous project): STR-18-002		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment: Interim improvements at the intersection of NW 36 th Street and NW Ash Drive to include the installation of a traffic signal on span wires and the widening of NW 36 th Street to accommodate dedicated left turn lanes.			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: 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.			
Project Estimate Completed By:	Public Works (Lust)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$25,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$25,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$25,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW 36 th Street Reconstruction – NW Irvinedale Drive to NW Abilene Road	Project Number (if previous project): STR-18-003		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
The reconstruction of NW 36 th 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 36 th Street and NW Irvinedale Drive are not included with this project.			
Strategy, Plan or Study:	2010 Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Lust)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$25,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$25,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$25,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: NW 18th Street Extension - NW Abbie Drive to Iowa Highway 415	Project Number (if previous project): STR-18-004		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
Extension of NW 18 th 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 18 th 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.			
Strategy, Plan or Study:	2010 Ankeny Comprehensive Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Okerlund)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$330,000
Planning/Study					
Legal & Recording					
Easements/Land					\$130,000
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$460,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$460,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: South Ankeny Boulevard and SW Oralabor Road Safety Studies	Project Number (if previous project): STR-18-006		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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 3 rd 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.			
Strategy, Plan or Study:	Discuss partnering with the Iowa DOT to complete the safety studies because South Ankeny Boulevard (U.S. Highway 69) and Oralabor Road (IA Highway 160) are joint jurisdictional streets.		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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 3 rd 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.			
Operating Impact:			
Since these are studies and no construction is being programmed at this time, there is not an operating impact.			
Project Estimate Completed By:	Public Works (Mueller)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study	\$40,000	\$45,000			
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$40,000	\$45,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$40,000	\$45,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Public Works		Project Type: Streets and Alleys (STR)	
New/Replacement: New - Non-Existing		Core Business: Provide For Easy Movement Within the Community and Access to the Metro	
Project Title: SE Hulsizer Road Realignment		Project Number (if previous project): STR-18-007	
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	<p>2015 SE Oralabor Road & SE Delaware Avenue Traffic Impact Study completed by the Iowa DOT and City; 2016 NE 19th Lane & SE Oralabor Road Traffic Impact Study completed by Kinzler Equities</p>		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Mueller) and CDA	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$175,000	\$175,000			
Planning/Study					
Legal & Recording					
Easements/Land	\$150,000				
Equipment					
Construction		\$1,950,000			
Total Operating Costs	\$325,000	\$2,125,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants - RISE	\$100,000	\$600,000			
Federal Grants					
Other:					
Total Outside Funding	\$100,000	\$600,000	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$225,000	\$1,525,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs			\$700	\$700	\$700
Utilities			\$1,500	\$1,500	\$1,500
Total Operating Impact	\$0	\$0	\$2,200	\$2,200	\$2,200

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Streets and Alleys (STR)		
New/Replacement: New - Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: SW Oralabor Road and DMACC Boulevard Intersection Improvements	Project Number (if previous project): STR-18-008		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	<p>Des Moines Area Community College (DMACC) completed a traffic study for the intersection in 2016. The study included a proposed concept plan and conceptual opinion of cost for the improvements.</p>		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Public Works (Mueller)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$100,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$100,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other: DMACC					\$50,000
Total Outside Funding	\$0	\$0	\$0	\$0	\$50,000
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$50,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: City Manager's Office		Project Type: Streets and Alleys (STR)	
New/Replacement: New - Non-Existing		Core Business: Plan and Regulate Land Use and Development	
Project Title: SE Convenience Boulevard Extension		Project Number (if previous project): STR-18-009	
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:		Polk County Aviation Authority ACIP, SE Convenience Boulevard Extension RISE Application	
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:		Snyder & Associates	Date: 9/1/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$127,800				
Planning/Study					
Legal & Recording					
Easements/Land	\$25,000				
Equipment - Street Lighting	\$56,000				
Construction	\$935,380				
Total Operating Costs	\$1,144,180	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants	\$435,225				
Federal Grants					
Other: PCAA Reimbursement	\$708,955				
Total Outside Funding	\$1,144,180	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs		\$700	\$700	\$700	\$700
Utilities		\$900	\$900	\$900	\$900
Total Operating Impact	\$0	\$1,600	\$1,600	\$1,600	\$1,600

CAPITAL PROJECT REQUEST FORM

Department: Public Works	Project Type: Traffic Control (TRF)		
New/Replacement: New - Non-Existing	Core Business: Provide For Easy Movement Within the Community and Access to the Metro		
Project Title: Annual Traffic Signal Improvement Program	Project Number (if previous project): TRF-00-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Proposed Locations of New Traffic Signals:			
<p>2018 – West 1st Street & IA Highway 415 Signal (\$360,000; cost share with Polk County and DOT)</p> <p>2018 – NE Delaware Avenue & NE 18th Street Pedestrian Signal Modifications (\$50,000)</p> <p>2018 – Fiber Optic Conduit Connection between New Library and Police Station (\$125,000)</p> <p>2018 – Interstate 35 & SE Corporate Woods Drive SB Ramp Signal (\$290,000; potential cost share with DOT)</p> <p>2018 to 2019 – SW State Street & SW Prairie Trail Parkway (\$600,000; design in 2018 & construct in 2019)</p> <p>2020 to 2022 – Traffic Signal Projects To Be Determined (\$350,000)</p> <p>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.</p>			
Strategy, Plan or Study:	Public Works – Engineering monitoring of traffic safety and mobility		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Public Works (Lust and Dozler)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$150,000	\$50,000	\$50,000	\$50,000	\$50,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$725,000	\$500,000	\$300,000	\$300,000	\$300,000
Total Operating Costs	\$875,000	\$550,000	\$350,000	\$350,000	\$350,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants	\$100,000				
State of Iowa Grants	\$175,000				
Federal Grants					
Other:					
Total Outside Funding	\$275,000	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$600,000	\$550,000	\$350,000	\$350,000	\$350,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities	\$300	\$750	\$1,100	\$1,400	\$1,700
Total Operating Impact	\$300	\$750	\$1,100	\$1,400	\$1,700

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: Replacement - Poor	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Annual Water Main Replacement Program	Project Number (if previous project): WTM-00-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>Annual allocation of capital improvement funds for repair and replacement of water utility infrastructure. Specific projects for 2018 to 2022 include the following:</p> <ul style="list-style-type: none"> • 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), 2019 - \$140,000; 2020 \$215,000 • West 1st Street (Chapel to Des Moines) Water Main Improvements (2 phases), 2021 – \$555,000; 2022 – \$530,000 • 1/3 NW Northlawn Area Utility Improvements (4 phases): 2019 - \$42,000 (design); 2020 - \$40,000 (design) \$460,000 (construct); 2021 - \$35,000 (design) \$450,000 (construct); 2022 - \$35,000 (design) \$380,000 (construct); 2023 - \$370,000 (construct) 			
Strategy, Plan or Study:	List Strategies, Plans, or Studies Here		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager)	Date:	10/29/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$100,000	\$72,000	\$40,000	\$115,000	\$115,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$800,000	\$1,015,000	\$1,105,000	\$995,000	\$900,000
Total Operating Costs	\$900,000	\$1,087,000	\$1,145,000	\$1,110,000	\$1,015,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$900,000	\$1,087,000	\$1,145,000	\$1,110,000	\$1,015,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Maintenance Costs					
Utilities	\$500	\$500	\$500	\$500	\$500
Total Operating Impact	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Ash Tower Transmission Main	Project Number (if previous project): WTM-15-002		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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 200 staff hours will be needed for de-chlorinating, pressure testing, operating valves, and locating services. It will take over 1MG 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.</p>			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager)	Date:	11/1/2017
	Snyder & Assoc.		

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$150,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$1,950,000				
Total Operating Costs	\$2,100,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$2,100,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$9,000				
Maintenance Costs					
Utilities	\$2,000				
Total Operating Impact	\$11,000	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: NW Booster Station	Project Number (if previous project): WTM-15-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager) V&K	Date:	10/30/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$200,000				
Planning/Study					
Legal & Recording					
Easements/Land	\$20,000				
Equipment					
Construction	\$2,602,090				
Total Operating Costs	\$2,822,090	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$2,822,090	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$5,800	\$23,926	\$24,706	\$25,486	\$26,266
Maintenance Costs	\$25	\$100	\$100	\$100	\$100
Utilities	\$6,320	\$25,300	\$25,350	\$25,400	\$25,500
Total Operating Impact	\$12,145	\$49,326	\$50,156	\$50,986	\$51,866

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living
Project Title: High Trestle Trail Transmission Main	Project Number (if previous project): WTM-17-001
New Project or Change to Previous Project - Change to Previous Project	
Technical Description of Project/Equipment:	
<p>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.</p>	
Strategy, Plan or Study:	2016 Water System Master Plan
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>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.</p>	
Operating Impact:	
<p>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.</p>	
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR
Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering				\$200,000	\$200,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					\$2,725,000
Total Operating Costs	\$0	\$0	\$0	\$200,000	\$2,925,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$200,000	\$2,925,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs				\$7,500	\$4,500
Maintenance Costs					
Utilities					\$2,000
Total Operating Impact	\$0	\$0	\$0	\$7,500	\$6,500

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: SE Magazine Road Water Main Improvements	Project Number (if previous project): WTM-17-003		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Clark) and Fox	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$80,000				
Planning/Study					
Legal & Recording					
Easements/Land	\$25,000				
Equipment					
Construction	\$825,000				
Total Operating Costs	\$930,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$930,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$4,500				
Maintenance Costs					
Utilities	\$300				
Total Operating Impact	\$4,800	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living
Project Title: SW Irvinedale Drive Transmission Main - Phase 1	Project Number (if previous project): WTM-17-004
New Project or Change to Previous Project - Change to Previous Project	
Technical Description of Project/Equipment:	
<p>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.</p>	
Strategy, Plan or Study:	2016 Water System Master Plan
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>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.</p>	
Operating Impact:	
<p>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 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.</p>	
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR
Date:	11/1/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$225,000	\$200,000			
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$2,800,000			
Total Operating Costs	\$225,000	\$3,000,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$225,000	\$3,000,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$7,500	\$9,000			
Maintenance Costs					
Utilities		\$6,000			
Total Operating Impact	\$7,500	\$15,000	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: NW State Street Water Main Improvements	Project Number (if previous project): WTM-17-005		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: Approximately 300 LF of 12" distribution water main on the west side of NW State Street from NW 9 th Street to NW 10 th Street. There is an existing 6" water main in this section that needs to be upsized.			
Strategy, Plan or Study:	2016 Water Study Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: 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.			
Project Estimate Completed By:	Municipal Utilities (Wedell)	Date:	10/17/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction		\$90,000			
Total Operating Costs	\$0	\$90,000	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$90,000	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs		\$3,000			
Maintenance Costs					
Utilities		\$50			
Total Operating Impact	\$0	\$3,050	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: SW Irvinedale Drive Transmission Main - Phase 2	Project Number (if previous project): WTM-17-006		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR	Date:	11/1/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering		\$250,000	\$250,000		
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction			\$3,200,000		
Total Operating Costs	\$0	\$250,000	\$3,450,000	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$250,000	\$3,450,000	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs		\$7,500	\$4,500		
Maintenance Costs					
Utilities			\$1,200		
Total Operating Impact	\$0	\$7,500	\$5,700	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: SW Irvinedale Drive Transmission Main - Phase 3	Project Number (if previous project): WTM-17-007		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Approximately 3,900 LF of 24" transmission water main along NW Irvinedale Drive from NW 9 th Street north to NW 18 th 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.			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR	Date:	11/1/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering			\$140,000	\$140,000	
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction				\$1,855,000	
Total Operating Costs	\$0	\$0	\$140,000	\$1,995,000	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$140,000	\$1,995,000	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs			\$7,500	\$4,500	
Maintenance Costs					
Utilities				\$600	
Total Operating Impact	\$0	\$0	\$7,500	\$5,100	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Purchase Capacity in Saylorville Feeder Main	Project Number (if previous project): WTM-17-008		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: Purchase the remaining capacity in the Saylorville WTP north feeder main, which is an existing 24" transmission main that extends north along NW 26 th Street from NW 66 th Avenue through our meter pit to SW Oralabor Road.			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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			
Operating Impact: Additional source capacity for future growth and water demands.			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording				\$100,000	
Easements/Land					
Equipment - Pipe Capacity				\$700,000	
Construction					
Total Operating Costs	\$0	\$0	\$0	\$800,000	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$800,000	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living
Project Title: NW Tower Transmission Main	Project Number (if previous project): WTM-17-009
New Project or Change to Previous Project - Change to Previous Project	
Technical Description of Project/Equipment:	
<p>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. <i>(See Concept & Site Study for Future NW Tower Form.)</i></p>	
Strategy, Plan or Study:	2016 Water System Master Plan
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:	
<p>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.</p>	
Operating Impact:	
<p>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.</p>	
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR
Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering				\$150,000	\$125,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					\$1,825,000
Total Operating Costs	\$0	\$0	\$0	\$150,000	\$1,950,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$150,000	\$1,950,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs				\$7,500	\$8,500
Maintenance Costs					
Utilities					\$800
Total Operating Impact	\$0	\$0	\$0	\$7,500	\$9,300

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: South Ankeny Boulevard Transmission Main	Project Number (if previous project): WTM-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Municipal Utilities (Plager), HDR	Date:	11/2/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$250,000
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$0	\$0	\$250,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$0	\$250,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					\$4,500
Maintenance Costs					
Utilities					\$1,200
Total Operating Impact	\$0	\$0	\$0	\$0	\$5,700

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Mains (WTM)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Trestle Ridge Estates 24" Water Main	Project Number (if previous project): WTM-18-002		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
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.			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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.			
Project Estimate Completed By:	Municipal Utilities (Hayden)	Date:	10/25/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$130,000				
Total Operating Costs	\$130,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$130,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$8,250				
Maintenance Costs					
Utilities	\$350				
Total Operating Impact	\$8,600	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Tower/Storage (WTT)		
New/Replacement: New - Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Ash Water Tower Repair and Repaint	Project Number (if previous project): WTT-17-001		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment:			
Repair minor pinholes and rust spots, sandblasting, priming, and repainting interior and exterior of existing 500,000 gallon elevated water storage tank.			
Strategy, Plan or Study:	2015 Ash Water Tower Inspection Report, 2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
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.			
Operating Impact:			
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 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.			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager), HDR, V&K	Date:	11/1/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering	\$15,000				
Planning/Study					
Legal & Recording					
Easements/Land					
Equipment					
Construction	\$165,000				
Total Operating Costs	\$180,000	\$0	\$0	\$0	\$0
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$180,000	\$0	\$0	\$0	\$0
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs	\$4,500				
Maintenance Costs					
Utilities	\$2,000				
Total Operating Impact	\$6,500	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

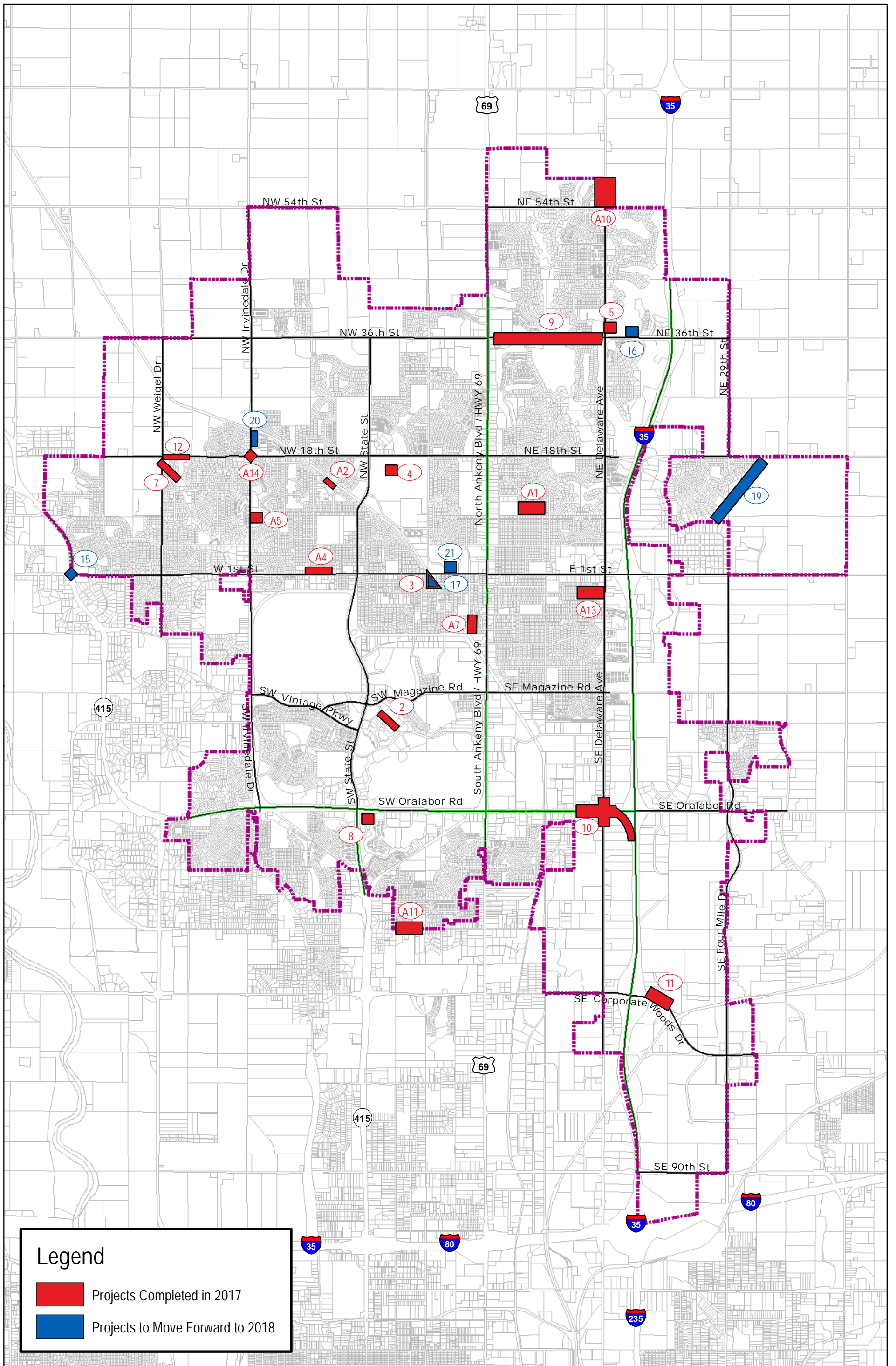
Department: Municipal Utilities	Project Type: Water Tower/Storage (WTT)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Aquifer Storage and Recovery #1 Replacement	Project Number (if previous project): WTT-17-002		
New Project or Change to Previous Project - Change to Previous Project			
Technical Description of Project/Equipment: 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.			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request: 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.			
Operating Impact: 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.			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager)	Date:	11/3/2017

Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering				\$150,000	\$250,000
Planning/Study				\$100,000	
Legal & Recording					
Easements/Land					\$350,000
Equipment					\$750,000
Construction					\$2,400,000
Total Operating Costs	\$0	\$0	\$0	\$250,000	\$3,750,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$0	\$250,000	\$3,750,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs					
Maintenance Costs					
Utilities					
Total Operating Impact	\$0	\$0	\$0	\$0	\$0

CAPITAL PROJECT REQUEST FORM

Department: Municipal Utilities	Project Type: Water Tower/Storage (WTT)		
New/Replacement: New - Non-Existing	Core Business: Provide Reliable Utility Services For Daily Living		
Project Title: Concept & Site Study for Future NW Water Tower	Project Number (if previous project): WTT-18-001		
New Project or Change to Previous Project - New Project			
Technical Description of Project/Equipment:			
<p>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.</p>			
Strategy, Plan or Study:	2016 Water System Master Plan		
Summarize Project Purpose, Status of Outside Funding, and Reasons for Project Request:			
<p>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.</p>			
Operating Impact:			
<p>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.</p>			
Project Estimate Completed By:	Municipal Utilities (Clark, Plager) HDR	Date:	11/3/2017

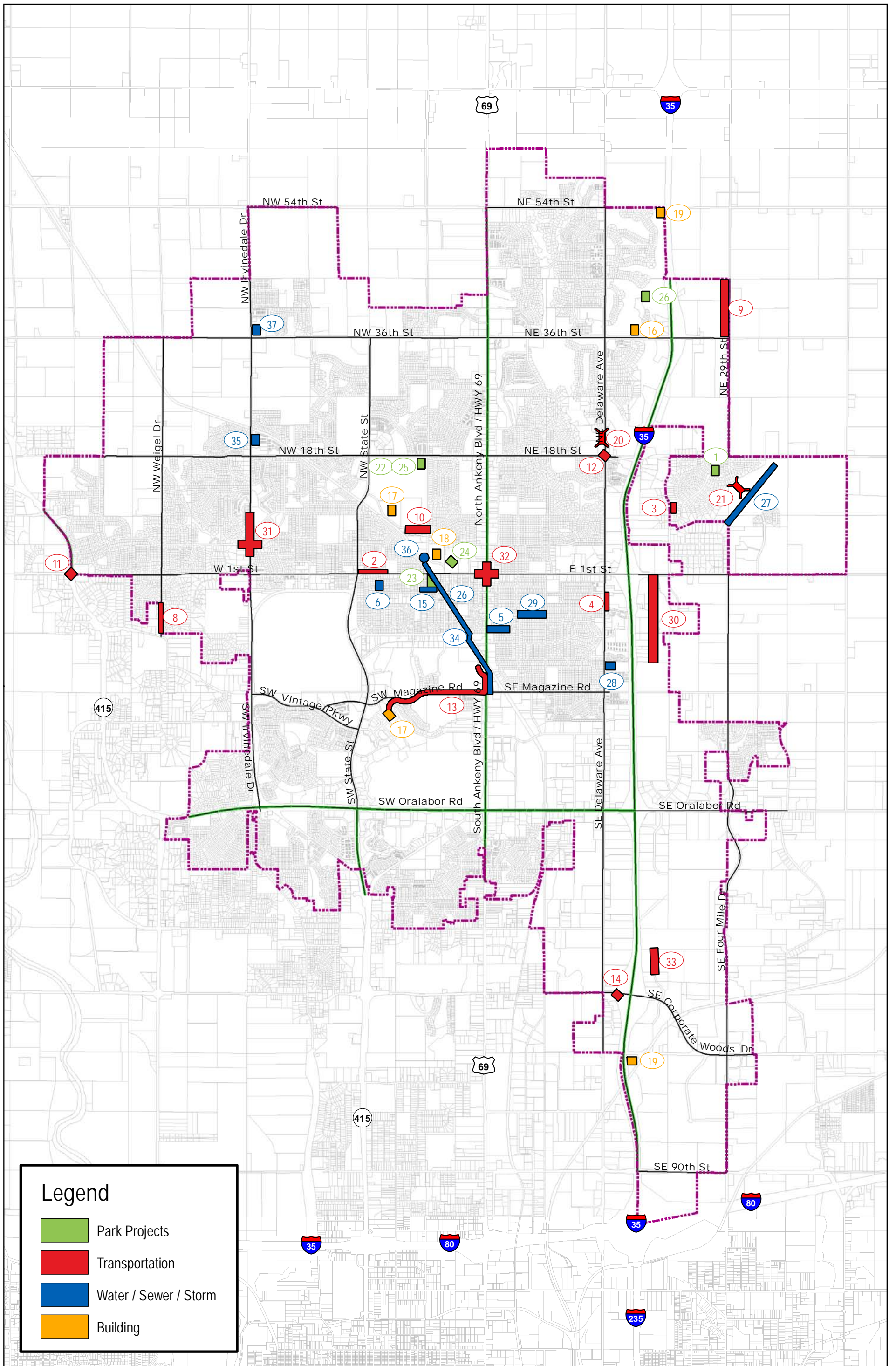
Costs Required:	2018	2019	2020	2021	2022
Architecture & Engineering					\$250,000
Planning/Study			\$25,000		
Legal & Recording					
Easements/Land				\$350,000	
Equipment					
Construction					
Total Operating Costs	\$0	\$0	\$25,000	\$350,000	\$250,000
Outside Funding Sources:	2018	2019	2020	2021	2022
Developer Contributions					
Polk County Grants					
State of Iowa Grants					
Federal Grants					
Other:					
Total Outside Funding	\$0	\$0	\$0	\$0	\$0
Internal Funding Requirement:	2018	2019	2020	2021	2022
Total Internal Funding	\$0	\$0	\$25,000	\$350,000	\$250,000
Operating Impact:	2018	2019	2020	2021	2022
Personnel Costs			\$3,000	\$3,000	\$6,800
Maintenance Costs					
Utilities					\$15,000
Total Operating Impact	\$0	\$0	\$3,000	\$3,000	\$21,800



Legend

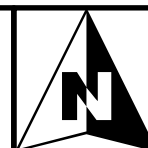
- Projects Completed in 2017
- Projects to Move Forward to 2018

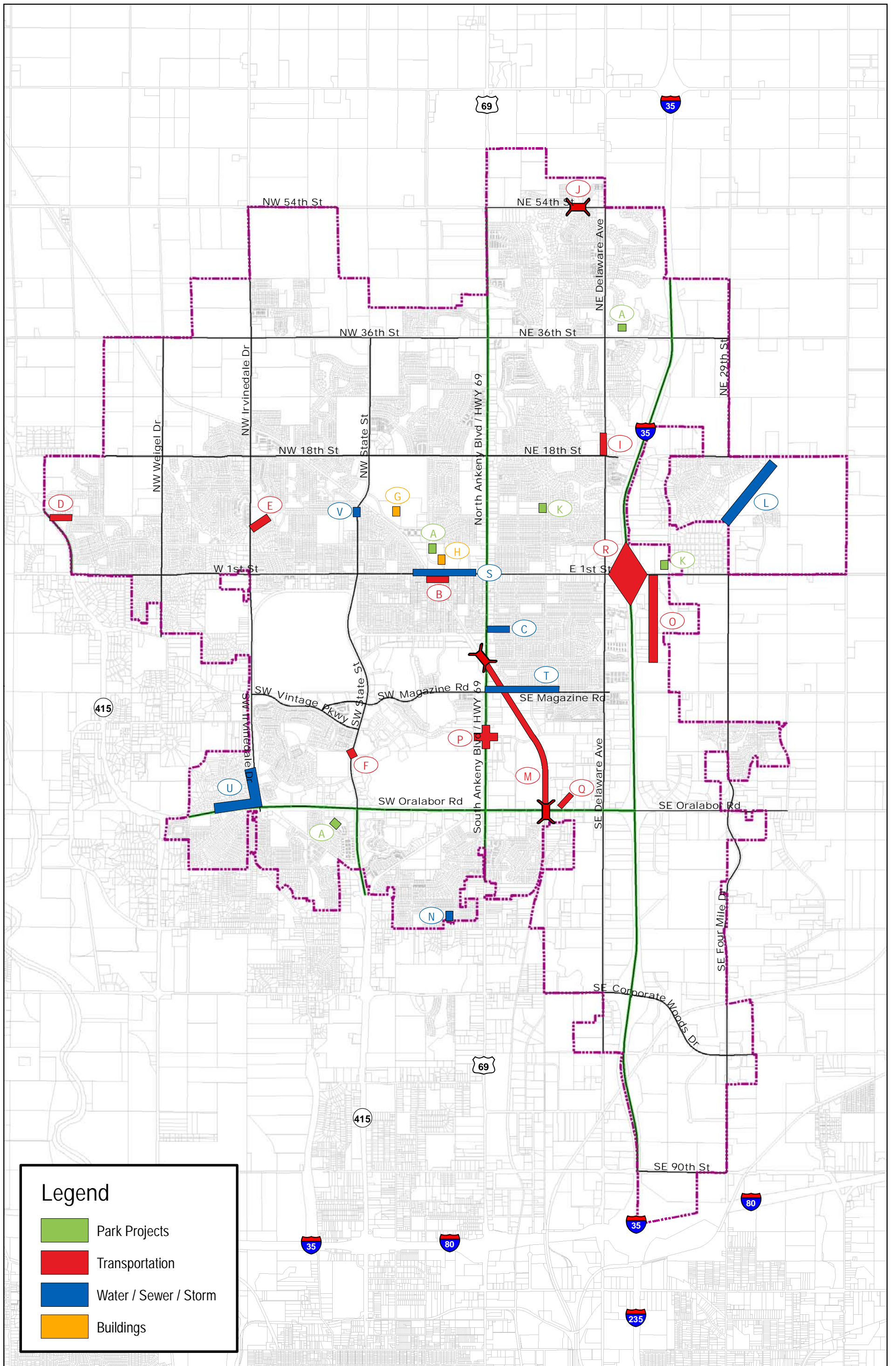




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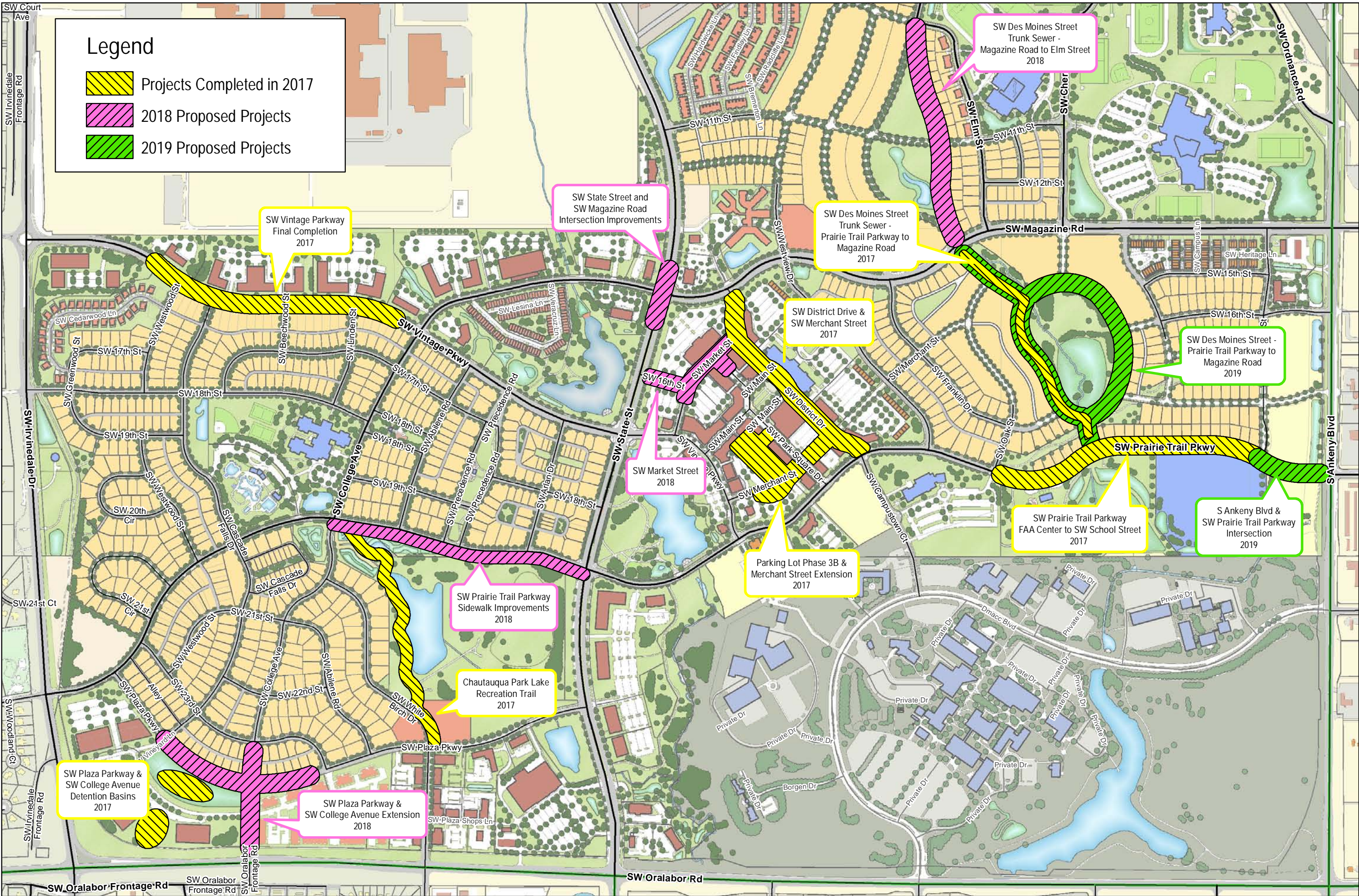
- Park Projects
- Transportation
- Water / Sewer / Storm
- Building





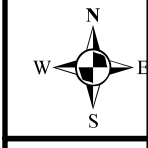
Legend

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



Legend

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



2018 - 2022 Capital Improvement Program
Prairie Trail Construction Projects

