

Category: **Water**

Funding Status: **Funding Secured**

Project: **24 Inch Transmission Main Relocation at Shelbourne Drive**

Project Description: The Illinois Dept. of Transportation High Speed Rail (HSR) Project will be performing ditch work along the RR tracks where the City's water transmission main crosses the tracks. The transmission main is in place under the tracks and needs to be lowered.

Project Status: Per railroad, the City does not need to pay for this conflict, unless the railroad finds a permit for the mains. This just in case budget has been partially used in FY17 on other projects.
FY17 Funding Secured for design and construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120 - 70050 & 72540	\$ 330,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 330,000
Total	\$ 330,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 330,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Map of the relocation area of the water main.



Category: **Water**

Funding Status: **Funding Partially Secured**

Project: **Cloud From McGregor To Vale Water Main Replacement**

Project Description: The water mains in the County Clerks Subdivision were constructed in the late 50's and are undersize. The water main is a 4 inch and is made of cast-iron and portions of the water services are made of lead. There have been numerous water main breaks in this subdivision in the last 5 years.

Project Status: This will be in conjunction with Public Works on a street resurfacing project. The "umbrella A&E contract" will go to Council Nov., 2016.
FY17 Funding Secured for Design
FY19 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 &72540	\$ 40,000	\$ 0	\$ 380,000	\$ 0	\$ 0	\$ 420,000
Total	\$ 40,000	\$ 0	\$ 380,000	\$ 0	\$ 0	\$ 420,000

Neighborhood: County Clerk's Subdivision

Ward: Ward 1

Photo (if applicable):

Aerial map of the County Clerk's Subdivision where the water mains are located.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Electrical Conversion of Evergreen Pump Station**

Project Description: The existing 2400 volt infrastructure will be converted to a 480 volt system. The design will include replacement of components due to failure, end of useful life, age, inefficiencies and safety concerns.

Project Status: Finalizing Consultant Design Contract under "umbrella A&E contract" .
FY17 Funding Secured for Design
FY18 Funding Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130 -70050 & 72620	\$ 75,000	\$ 500,000	\$ 0	\$ 0	\$ 0	\$ 575,000
Total	\$ 75,000	\$ 500,000	\$ 0	\$ 0	\$ 0	\$ 575,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Evergreen Lake Pump Station



Category: **Water**

Funding Status: **Funding Partially Secured**

Project: **Fleetwood Subdivision Water Main Replacement**

Project Description: The water mains in the Fleetwood Subdivision were constructed in the late 50's. The water mains were made of cast-iron and have mechanical joints at each section of pipe. The water mains in this area have been the site of numerous water main breaks.

Project Status: This will be in conjunction with Public Works on a street resurfacing project. The "umbrella A&E contract" will go to Council Nov., 2016.
FY17 Funding Secured for Design
FY20 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$75,000	\$0	\$0	\$1,150,000	\$0	\$1,225,000
Total	\$75,000	\$0	\$0	\$1,150,000	\$0	\$1,225,000

Neighborhood: Fleetwood

Ward: Ward 5

Photo (if applicable):

Aerial map of the Fleetwood Subdivision where all the water mains are located.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Lake Bloomington and Evergreen Lake Dam / Spillway Improvements**

Project Description: This project will complete the design and construction of various dam and spillway repairs and improvements to ensure the operational capability of the lakes. Construction timing requires reservoir level below spillway crest.

Project Status: Hanson Professional has started the design process under the Emergency Action Plan project.
FY17 Funding Secured for Design
FY18 Funding Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72620	\$ 25,000	\$ 275,000	\$ 0	\$ 0	\$ 0	\$ 300,000
Total	\$ 25,000	\$ 275,000	\$ 0	\$ 0	\$ 0	\$ 300,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Lake Bloomington spillway



Category: **Water**

Funding Status: **Funding Secured**

Project: **Lake Bloomington Fill Site Grading**

Project Description: The area downstream of the Lake Bloomington dam had been in use as a clean construction debris fill site for several years but is now closed to additional fill. This project will replace the grade, reshape, stabilize and revegetate the fill area downstream of the dam at Lake Bloomington.

Project Status: Waiting to see if the property can be re-zoned. If so, will use the "umbrella A&E contract" to start the project.
FY17 is Design and Construction.
FY17 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72590	\$ 400,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 400,000
Total	\$ 400,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 400,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Area to be filled, reshaped and graded



Category: **Water**

Funding Status: **Funding Secured**

Project: **Multi-year Compound Meter Upgrades**

Project Description: Existing Meters are slow and usage / revenue is under accounted for. Replacing Compound Meters improves flow range detection and billing accuracy. Existing meter vaults will be replaced or retrofitted for proper access to the new meters for regular maintenance and to ensure safety.

Project Status: Entering second year of project.

FY17, FY18, FY19, FY20, & FY21 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2d. Well-designed, well-maintained City facilities emphasizing productivity and customer service

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100150 -70050 & 72620	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,400,000
Total	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,400,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

HP Protectus III S fire service meter, compound meter



Category: **Water**

Funding Status: **Funding Partially Secured**

Project: **Multi-year Outside Consultant Civil Engineering Services**

Project Description: The Water Department is utilizing outside consulting services to function as a full-time Water Department staff member. This project allows the City to show the viability of utilizing outside resources to staff Departments when project demands exceed City staffing capabilities.

Project Status: Currently there is a contract with Maurer Stutz, Inc. and engineering services are moving forward on capital maintenance projects.
FY17 & FY18 Funding Secured
FY19, FY20, & FY21 Funding Not Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2d. Well-designed, well-maintained City facilities emphasizing productivity and customer service

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100110 - 70050	\$ 285,000	\$ 288,500	\$ 297,200	\$ 306,100	\$ 315,300	\$ 1,492,100
Total	\$ 285,000	\$ 288,500	\$ 297,200	\$ 306,100	\$ 315,300	\$ 1,492,100

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):



Category: **Water**

Funding Status: **Funding Partially Secured**

Project: **Multi-year Reservoir Shoreline / Stream Erosion Control Improvements**

Project Description: This continues shoreline and stream stabilization work in the reservoirs and the tributary streams feeding them. The longevity of the drinking water reservoirs is extended, water quality is improved and fish and wildlife habitat is enhanced by these projects, partially funded by grants.

Project Status: Council memo for half of the work will be brought to Council in October 2016. The other half of the work will be done in the Spring 2017.
FY17 Funding Secured
FY18, FY19, FY20, FY21 Funding Not Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130 -70050 & 72620	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000
Total	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Shoreline Stabilization



Category: **Water**

Funding Status: **Funding Partially Secured**

Project: **SCADA Master Plan - Study / Design & Construction**

Project Description: A complete assessment of the condition of the assets in the Water Departments SCADA system will provide for an orderly analysis and ranking of SCADA infrastructure that needs to be repaired, rehabilitated or replaced as well as what software needs to be added to the system.

Project Status: Sending out RFQ.

FY17 Funding Secured for Planning / Design
FY18 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2e. Investing in the City's future through a realistic, funded capital improvement program

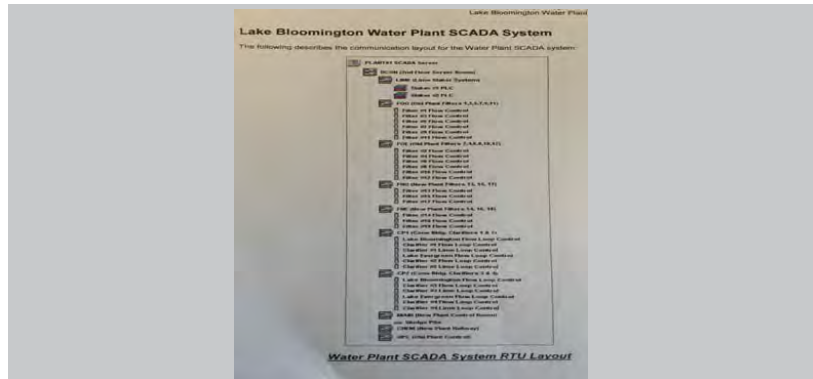
Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72620	\$ 300,000	\$ 1,500,000	\$ 0	\$ 0	\$ 0	\$ 1,800,000
Total	\$ 300,000	\$ 1,500,000	\$ 0	\$ 0	\$ 0	\$ 1,800,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Szarek Dr Water Main Replacement**

Project Description: The 6" cast iron water main in the Szarek's Subdivision was constructed in 1973. There have been numerous water main breaks in this road in the summer of 2016.

Project Status: The "umbrella A&E contract" will be used for the project.

FY17 Funding Not Secured for Design
FY18 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$ 35,000	\$ 330,000	\$ 0	\$ 0	\$ 0	\$ 365,000
Total	\$ 35,000	\$ 330,000	\$ 0	\$ 0	\$ 0	\$ 365,000

Neighborhood: Szarek's Subdivision

Ward: Ward 6

Photo (if applicable):

Aerial map of the Szarek's Subdivision where the water main is located.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Department Infrastructure Master Plan**

Project Description: An Infrastructure Master Plan is needed to consolidate and establish the overall state of the water system. This master plan will provide guidance for future improvements, maintenance and operation of the system; provide efficient water service, and comply with EPA requirements.

Project Status: Currently preparing RFQ.

FY17 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2e. Investing in the City's future through a realistic, funded capital improvement program

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100110 - 70050	\$ 350,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 350,000
Total	\$ 350,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 350,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

This study will provide a road map for needed maintenance and future improvements.



Category: **Water**

Funding Status: **Funding Secured**

Project: **WTP & Evergreen Lake Pump Station Arc Flash Study & Implementation**

Project Description: The NFPA 70E Standard for Electrical Safety in the Workplace requires the performance of an arc-flash hazard study in order to identify and specify the level of personal protective equipment required when working in and around arc-flash prone equipment.

Project Status: Finalizing Contract with Consultant.

FY17 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2d. Well-designed, well-maintained City facilities emphasizing productivity and customer service

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130 -70050	\$ 72,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 72,000
Total	\$ 72,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 72,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Example arc-flash warning label.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Treatment Plant Annex Building Roof Replacement**

Project Description: This project will replace the deteriorated roof of the Annex Building (aka Old Plant) at the Water Treatment Plant on Lake Bloomington. The building is still a valuable asset for the treatment plant campus, and houses the raw water pumps, a filter gallery, laboratory facilities, & more.

Project Status: This project will be bid in Spring 2017 and the funds will be encumbered to complete the project by September 2017.

FY17 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72520	\$ 250,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 250,000
Total	\$ 250,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 250,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

City Water Treatment Plant



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Treatment Plant Natural Gas Main Replacement**

Project Description: This project will replace the failed natural gas main feeding the Main Process Building at the Water Treatment Plant on Lake Bloomington. A leak in the main feeding the Main Process Building developed in January, 2015. A temporary fix is in place but needs a permanent replacement.

Project Status: Funding for this project is secured in the FY17 budget. This project will be bid in winter 2016/17 and construction will take place in Spring 2017.

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72590	\$ 135,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 135,000
Total	\$ 135,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 135,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Temporary gas main



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Treatment Plant Recarbonation Bypass**

Project Description: The design will allow the Department to reconfigure the existing basins and address deficiencies in the softening residuals and clarifier blow down storage & conveyance. This project will address the capacity limitation at the existing basins and increase total treatment capabilities.

Project Status: Planning to use the "umbrella A&E contract" in November.

FY17 Funding Secured for Design
FY18 Funding Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72590	\$ 45,000	\$ 350,000	\$ 0	\$ 0	\$ 0	\$ 395,000
Total	\$ 45,000	\$ 350,000	\$ 0	\$ 0	\$ 0	\$ 395,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Existing recarbonation basin.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Treatment Plant - St. Peter Aquifer Groundwater Supply**

Project Description: The design and construction to develop a deep groundwater production well near the Lake Bloomington for a supplemental low nitrate water supply. It will reduce the need for ion exchange equipment for nitrate removal and will increase the reliable yield of overall water supply.

Project Status: Professional Services Contract with Baxter & Woodman, Inc. for Engineering Services related to the design of St. Peter Aquifer Water Supply Wells. Fall 2017 - design has started.
FY17 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

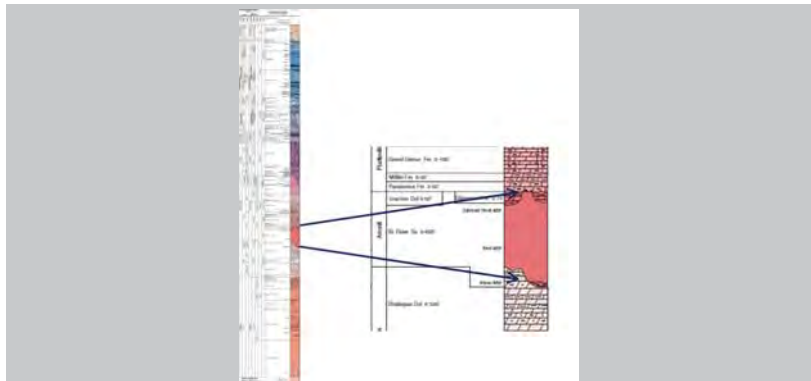
Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130 -72590	\$2,000,000	\$0	\$0	\$0	\$0	\$2,000,000
Total	\$2,000,000	\$0	\$0	\$0	\$0	\$2,000,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

St. Peter Sandstone



Category: **Water**

Funding Status: **Funding Secured**

Project: **Consultant Construction Administration Contract**

Project Description: Capital projects scheduled for construction in FY18 will require observation and inspection effort. The Water Department is not staffed sufficiently to support these required services. This capital project enables moving forward with other needed capital improvements.

Project Status: The "umbrella A&E contract" will be used for this project.

FY18 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100110 - 70050	\$0	\$250,000	\$0	\$0	\$0	\$250,000
Total	\$0	\$250,000	\$0	\$0	\$0	\$250,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):



Category: **Water**

Funding Status: **Funding Secured**

Project: **Lake Bloomington Water Main Replacement**

Project Description: The water main is 4 and 6 inch diameter cast-iron and portions of the water services are made of lead. There have been numerous water main breaks in this subdivision in the last 5 years.

Project Status:

FY16 Design is mostly complete.
FY18 Funding Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-72540	\$0	\$1,150,000	\$0	\$0	\$0	\$1,150,000
Total	\$0	\$1,150,000	\$0	\$0	\$0	\$1,150,000

Neighborhood: Potowatomie Camp, Lake Bloomington West side

Ward: N/A

Photo (if applicable):

Aerial map of the Lake Bloomington area where the water mains are located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Multi-Year Consultant Leak Detection for Water Loss Prevention**

Project Description: The Professional Services Consultant will perform Leak Detection Services in one quadrant of the City during each fiscal year from FY18-FY21. This will result in water loss prevention from repaired leaks and thus long term savings to the City.

Project Status: The RFQ process will be used for these Professional Services
FY18 - FY21 Funding Not Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

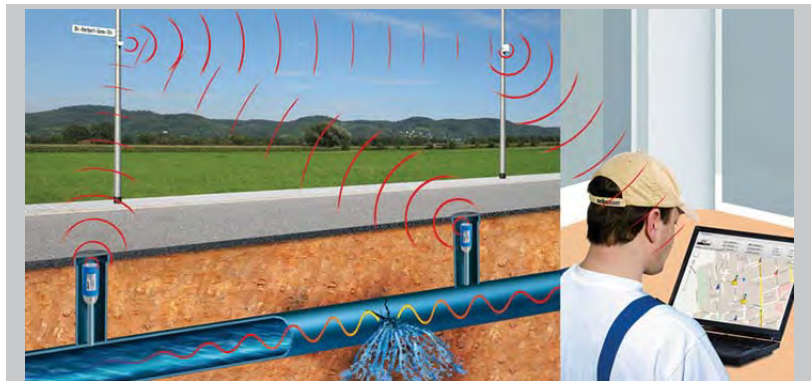
Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 &72540	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Total	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Pipeline Rd - Division E - Pressure Valve Control Stations**

Project Description: The pressure valve control stations will be by Fort Jesse and Division Street reservoirs. This is to meet IEPA pressure requirements at all times and will improve the pressures on the transmission and distribution mains between the WTP and Bloomington and around Lake Bloomington.

Project Status: This project is high priority.

FY18 Funding Not Secured for Design
FY19 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72620	\$ 0	\$ 200,000	\$ 2,500,000	\$ 0	\$ 0	\$ 2,700,000
Total	\$ 0	\$ 200,000	\$ 2,500,000	\$ 0	\$ 0	\$ 2,700,000

Neighborhood: City Wide

Ward: N/A

Photo (if applicable):

GIS map of the approximate locations of the proposed pressure valve control stations.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Treatment Plant Main Process Building Roof Replacement**

Project Description: This project will replace the deteriorated roof of the Main Process Building at the Water Treatment Plant on Lake Bloomington. This building houses the majority of the plant processes.

Project Status: This project will be bid in Spring 2018 and the funds will be encumbered to complete the project by September 2018.

FY18 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72520	\$0	\$265,000	\$0	\$0	\$0	\$265,000
Total	\$0	\$265,000	\$0	\$0	\$0	\$265,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

City Water Treatment Plant



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Division Pump Station Improvements**

Project Description: The existing 2400 volt infrastructure will be converted to a 480 volt system. The design will include replacement of components due to failure, end of useful life, age, inefficiencies and safety concerns.

Project Status: The "Umbrella A&E Contract" will be used for this project.

FY19 Funding Not Secured for Design
FY20 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120 -70050 & 72620	\$0	\$0	\$ 150,000	\$ 1,450,000	\$0	\$ 1,600,000
Total	\$0	\$0	\$ 150,000	\$ 1,450,000	\$0	\$ 1,600,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Division St. Pumps



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Evergreen Lake Dam Drain System Rehabilitation**

Project Description: The existing drain system, which was installed when the dam was built in 1971, is failing and needs to be replaced. The drains convey rain runoff away from the dam face to prevent erosion of the dam.

Project Status:

FY19 Funding Not Secured for Design
FY20 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72590	\$0	\$0	\$35,000	\$350,000	\$0	\$385,000
Total	\$0	\$0	\$35,000	\$350,000	\$0	\$385,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Evergreen Lake Spillway



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Lake Bloomington Sewerization**

Project Description: The septic system infrastructure installed on the leased lots at Lake Bloomington is reaching the end of their life expectancy and is starting to fail. Design and construction to provide sanitary sewer to the City owned lake lots and protect the lake water supply is required by EPA permitting.

Project Status: Water Dept 3.35m, Anticipate grants, SSA, user contribution of 13.4m
FY19 Funding Not Secured for Design
FY20 & FY21 Funding Not Secured for Land Purchases
FY23 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2c. Functional, well-maintained sewer collection system

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100110 - 70050 & 72550	\$0	\$0	\$ 150,000	\$ 100,000	\$ 100,000	\$ 3,350,000
Total	\$0	\$0	\$ 150,000	\$ 100,000	\$ 100,000	\$ 3,350,000

Neighborhood: Lake Bloomington

Ward: Multiple

Photo (if applicable):

Typical Existing Residential Leach Field.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Peirce Avenue Water Main Replacement**

Project Description: The water main is a 6 inch diameter cast-iron and portions of the water services are made of lead. There have been numerous water main breaks in this subdivision in the last 5 years.

Project Status: This will be in conjunction with Public Works on a street resurfacing project.
FY16 Design is mostly complete.
FY19 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 &72540	\$0	\$0	\$ 375,000	\$0	\$0	\$ 375,000
Total	\$0	\$0	\$ 375,000	\$0	\$0	\$ 375,000

Neighborhood: Prairie Village Subdivision

Ward: Ward 1

Photo (if applicable):

*Aerial map of the Peirce Ave.
where the water main is located.*



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Pump Station Arc Flash Study & Implementation**

Project Description: The NFPA 70E Standard for Electrical Safety in the Workplace requires the performance of an arc-flash hazard study in order to identify and specify the level of personal protective equipment required when working in and around arc-flash prone equipment.

Project Status: Future Project to cover remaining, unstudied pump stations in Bloomington.

FY19 Funding Not Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2d. Well-designed, well-maintained City facilities emphasizing productivity and customer service

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120 -70050	\$ 0	\$ 0	\$ 50,000	\$ 0	\$ 0	\$ 50,000
Total	\$ 0	\$ 0	\$ 50,000	\$ 0	\$ 0	\$ 50,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Example arc-flash warning label.



Category: **Water**

Funding Status: **Funding Secured**

Project: **Water Department Rate Study**

Project Description: A Water Rate Study has not been performed in over a decade and the anticipated Capital Improvement Projects costs exceed the currently projected revenue. A Water Rate Study is necessary to compare with other municipalities and decide on fair rates to meet infrastructure needs.

Project Status: FY19 Funding Secured

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2e. Investing in the City's future through a realistic, funded capital improvement program

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100110 - 70050	\$0	\$0	\$ 125,000	\$0	\$0	\$ 125,000
Total	\$0	\$0	\$ 125,000	\$0	\$0	\$ 125,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Water Treatment Plant Main Process Building Boiler Replacement**

Project Description: This preventative maintenance project is to replace the original boilers installed at the 1987 plant that are beyond their life expectancy and becoming inefficient. Boilers at the old plant that were installed in 1987 have already failed and were replaced in FY17.

Project Status: Bloomington Facilities Management will oversee project.

FY19 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72520	\$0	\$0	\$ 275,000	\$0	\$0	\$ 275,000
Total	\$0	\$0	\$ 275,000	\$0	\$0	\$ 275,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

City Water Treatment Plant



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Water Treatment Plant Modifications - Groundwater**

Project Description: Continuation of the development of a deep groundwater production well and associated pretreatment and conveyance piping near the Lake Bloomington or other site if needed.

Project Status:

FY19 Funding Not Secured for Design
FY20 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72590	\$0	\$0	\$150,000	\$1,000,000	\$0	\$1,150,000
Total	\$0	\$0	\$150,000	\$1,000,000	\$0	\$1,150,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Well drill



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Cast Iron Transmission Main Lining Project**

Project Description: The cast-iron water transmission main was constructed in the late 1920's. The City has experienced multiple issues with leaking joints on the main and the lining will help prevent the leaking. The main would be lined from Fort Jesse Pump Station to Division Street reservoirs.

Project Status:

FY20 Funding Not Secured for Design
FY21 & FY22 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

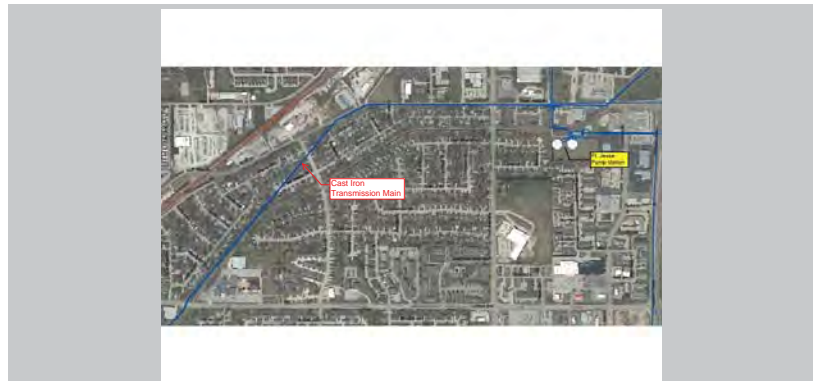
Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$250,000	\$2,000,000	\$4,250,000
Total	\$0	\$0	\$0	\$250,000	\$2,000,000	\$4,250,000

Neighborhood: City Wide

Ward: N/A

Photo (if applicable):

Aerial map of the part of Cast Iron Transmission Main where the water mains are located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Citizens Subdivision Water Main Replacement, Phase 1**

Project Description: The water mains were constructed in the late 40's and are undersized 2 & 4 inch diameter. They are made of cast-iron and have lead services. The water mains in this area have been the site of numerous water main breaks.

Project Status: This will be in conjunction with Public Works on a street resurfacing project. The "umbrella A&E contract" will be used for this project.
FY20 Funding Not Secured for Design
FY21 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$75,000	\$1,025,000	\$1,100,000
Total	\$0	\$0	\$0	\$75,000	\$1,025,000	\$1,100,000

Neighborhood: Citizens Subdivision

Ward: Ward 6

Photo (if applicable):

Aerial map of the Citizens Subdivision where all the water mains are located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Ireland Grove from Morrissey to Loop Water Main**

Project Description: The water mains in the State Farm South Subdivision were constructed in the late 60's. The water mains were made of cast-iron. The water mains in this area have been the site of numerous water main breaks.

Project Status: This will be in conjunction with Public Works on a street resurfacing project. The "umbrella A&E contract" will be used.
FY20 Funding Not Secured for Design
FY21 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$50,000	\$650,000	\$700,000
Total	\$0	\$0	\$0	\$50,000	\$650,000	\$700,000

Neighborhood: State Farm South Subdivision

Ward: Ward 1

Photo (if applicable):

Aerial map of the State Farm South Subdivision where all the water mains are located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Lake Destratifier Units Replacement**

Project Description: This preventative maintenance project is to replace the destratifier units at both Lake Bloomington and Evergreen Lake. It is time to replace them because they have been deteriorating and requiring excessive maintenance. They are needed to reduce nitrates in raw water intakes.

Project Status:

FY20 Funding Not Secured for Design
FY21 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72590	\$0	\$0	\$0	\$25,000	\$200,000	\$225,000
Total	\$0	\$0	\$0	\$25,000	\$200,000	\$225,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Lake surface above destratifiers



Category: **Water**

Funding Status: **Funding Secured**

Project: **Oak and Stewart Water Main Replacement**

Project Description: The water main is a 6 inch diameter cast-iron and portions of the water services are made of lead. There have been numerous water main breaks in this subdivision in the last 5 years.

Project Status: This will be in conjunction with Public Works on a street resurfacing project.
FY16 Design is mostly complete.
FY20 Funding Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$100,000	\$0	\$100,000
Total	\$0	\$0	\$0	\$100,000	\$0	\$100,000

Neighborhood: Davis Subdivision and McClurg Et Al Subdivision

Ward: Ward 1

Photo (if applicable):

Aerial map of the Oak and Stewart area where the water main is located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Citizens Subdivision Water Main Replacement, Phase 2**

Project Description: The water mains were constructed in the late 40's and are undersized 2 & 4 inch diameter. They are made of cast-iron and have lead services. The water mains in this area have been the site of numerous breaks.

Project Status: This will be in conjunction with Public Works on a street resurfacing project. The "umbrella A&E contract" will be used for this project.
FY21 Funding Not Secured for Design
FY22 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$0	\$75,000	\$1,100,000
Total	\$0	\$0	\$0	\$0	\$75,000	\$1,100,000

Neighborhood: Citizens Subdivision

Ward: Ward 6

Photo (if applicable):

Aerial map of the Citizens Subdivision where all the water mains are located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Finished Water Reservoirs Rehabilitation**

Project Description: This preventative maintenance project is to assess the condition of the finished water reservoirs for any repairs and to complete the repairs, as well as paint interior and exterior of the structures. These reservoirs include 2 tanks at Fort Jesse, 2 at Division St, and Hamilton Tank.

Project Status: Budget \$1mil/yr in out years for repairing and painting 1 reservoir / year.

FY21 Funding Not Secured for Inspection / Design

FY22-FY26 Funding Not Secured for Construction Repairs and Painting

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120 -70050 & 72620	\$0	\$0	\$0	\$0	\$200,000	\$5,200,000
Total	\$0	\$0	\$0	\$0	\$200,000	\$5,200,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Hamilton Tank



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Gridley Street from Oakland to Jackson Water Main Replacement**

Project Description: The water mains in the Evans Subdivision were constructed in the late 50's and are undersize. The water main is a 4 inch and is made of cast-iron and portions of the water services are made of lead. There have been numerous water main breaks in this subdivision in the last 5 years.

Project Status: This will be in conjunction with Public Works on a street resurfacing project. The "umbrella A&E contract" will be used for the project.
FY21 Funding Not Secured for Design
FY22 Funding Not Secured for Construction

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 4d. Improved neighborhood infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$0	\$25,000	\$275,000
Total	\$0	\$0	\$0	\$0	\$25,000	\$275,000

Neighborhood: Evans Subdivision

Ward: Ward 1

Photo (if applicable):

Aerial map of the Evans Subdivision where the water main is located.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Raw Water Intake Inspection and Repairs**

Project Description: This preventative maintenance project is to inspect the condition of the raw water intake structures in both Lake Bloomington and Evergreen Lake to assess the need for any repairs and to complete the repairs.

Project Status:

FY21 Funding Not Secured for Inspection / Design
FY22 Funding Not Secured for Construction Repairs

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-72590	\$0	\$0	\$0	\$0	\$50,000	\$250,000
Total	\$0	\$0	\$0	\$0	\$50,000	\$250,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Destratifiers location above raw water intake.



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Electrical and Building Improvements at Water Treatment Plant**

Project Description: The existing 2400 volt infrastructure will be converted to a 480 volt system. The design will include replacement of components due to failure, end of useful life, age, inefficiencies and safety concerns. This will also allow for larger plant capacity due to reduced electrical usage.

Project Status: Future Project
FY22 Funding Not Secured for Design, \$200,000
FY23 Funding Not Secured for Construction, 2,000,000

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130 -70050 & 72620	\$0	\$0	\$0	\$0	\$0	\$2,200,000
Total	\$0	\$0	\$0	\$0	\$0	\$2,200,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Water Treatment Plant



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Hamilton Tank Valve Reconstruction**

Project Description: The existing check valve is broken and not operating correctly. Structural Engineering design is required to be able to remove the existing 24" valve and Civil Engineering design to replace the valve and / or piping.

Project Status: Future Project
FY23 Funding Not Secured for Design, \$30,000
FY24 Funding Not Secured for Construction, \$150,000

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120 -70050 & 72620	\$0	\$0	\$0	\$0	\$0	\$180,000
Total	\$0	\$0	\$0	\$0	\$0	\$180,000

Neighborhood: City Wide

Ward: Multiple

Photo (if applicable):

Hamilton Tank



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Water Treatment Plant Emergency Ion Exchange**

Project Description: This is part of a multiple method approach to reduce our system's vulnerability to nitrates. This final method will install a chemical treatment process at the water plant to chemically remove nitrates. The need for this system and the size depends on the success of other projects.

Project Status:

FY23 Funding Not Secured for Design, \$150,000
FY24 Funding Not Secured for Construction \$1,350,000

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 2b. Quality water for the long term

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72590	\$0	\$0	\$0	\$0	\$0	\$1,500,000
Total	\$0	\$0	\$0	\$0	\$0	\$1,500,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Example Ion Exchange Treatment



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Water Treatment Plant Blower Building and Old Plant Filter Modifications**

Project Description: The blower building addition will allow air scour cleaning of the filters. This project will extend the filter life and increase plant capacity on the Annex Building (Old Plant) filters by replacing the underdrain system with gravel-less underdrains and replacing the filter media.

Project Status: This decision to proceed or not on this project will be dependent on the FY18 Master Planning Study recommendations.
FY25 Funding Not Secured Design, \$300,000
FY26 Funding Not Secured Construction, \$4,000,000

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

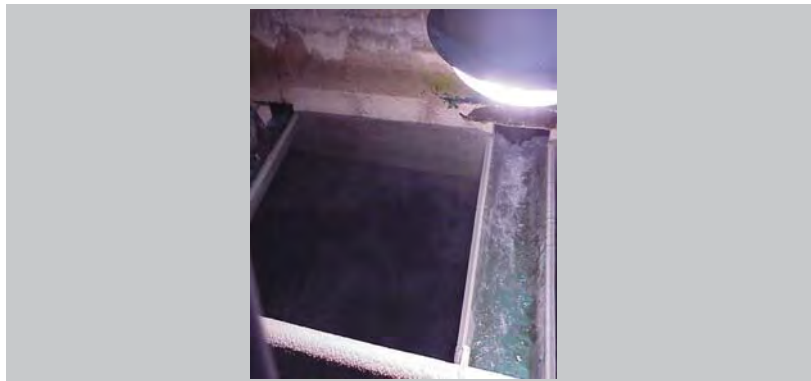
Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100130-70050 & 72590	\$0	\$0	\$0	\$0	\$0	\$4,300,000
Total	\$0	\$0	\$0	\$0	\$0	\$4,300,000

Neighborhood: Multiple

Ward: Multiple

Photo (if applicable):

Current Water Plant filter



Category: **Water**

Funding Status: **Funding Not Secured**

Project: **Pipeline Rd - Division D - Phase 2 - 36" Water Main and Sludge Lines**

Project Description: The final approximate 2.5 miles of 36" main will complete the Pipeline Road transmission main project began in 1998 to improve pressures and capacities on the transmission mains between the WTP and Bloomington. It will also fully retire the 1929 leaking 24" cast iron main.

Project Status: Final sizing and timing for project is dependent on FY18 Master Planning Study.
FY26 Funding Not Secured Design, \$400,000
FY27 Funding Not Secured Construction, \$5,000,000

Strategic Plan Link: 2. Upgrade City infrastructure and facilities

Strategic Plan Significance: 5a. Well-planned City with necessary services and infrastructure

Capital Costs

Fund	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Total
50100120-70050 & 72540	\$0	\$0	\$0	\$0	\$0	\$5,400,000
Total	\$0	\$0	\$0	\$0	\$0	\$5,400,000

Neighborhood: City Wide

Ward: N/A

Photo (if applicable):

Approximate location of Division D - Phase 2 final mains to complete Pipeline Rd project.

