

# Capital Improvement Program

FY 2016/17  
– 2021/22



## Public Works & Utilities

- Broadband Infrastructure
- Solid Waste Operations
- StarTran
- Street Maintenance Operations
- Streets & Highways
- Wastewater
- **Water Supply & Distribution**
- Watershed Management



## Public Works/Utilities - Water

### 0797 Infrastructure - Water Structures

#### Description:

Projects to rehabilitate and replace existing assets associated with structures including roofs, exterior coatings and masonry, and HVAC systems.

Example projects include:

Repaint West Wash Water Reservoir: \$200k - 16/17

Operations center HVAC: \$400k - 16/17

Repaint Merrill Street Standpipe: \$150 - 18/19

Repaint Air Park Reservoir: \$1,000k - 20/21

Various building rehabilitation projects such as tuck pointing, roof replacements and interior repairs.

<b>Group:</b>	Structural Repair & Maintenance
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total: \$1,600.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

#### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$100.00	\$200.00	\$100.00	\$100.00	\$1,100.00	\$0.00	\$1,600.00

#### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X	X	X	X	
Final Plans	X		X	X	X	

### 0006 Water Security Upgrade

#### Description:

To provide the necessary improvements as recommended in the Vulnerability Assessment, including fencing, surveillance systems, & access control measures.

Example projects include:

Operations Center Security: \$700k - FY16/17

Pioneers PS, A Street PS and Yankee Hill Reservoir: \$330k - FY17/18

Cheney Reservoir: \$200k - FY19/20

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total: \$3,640.00

Prior Appropriations \$2,840.00

Costs Beyond: \$0.00

#### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$100.00	\$200.00	\$200.00	\$200.00	\$50.00	\$50.00	\$800.00

#### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X
Final Plans	X	X	X	X		

## 0007 Water Facilities Master Plan

### Description:

Engineering evaluation of water system including supply, treatment, transmission, pumping, storage and distribution to provide safe and adequate water supply to Lincoln based on Comprehensive Plan. FY17/18 funding is for a mid-term update of the 2013 Master Plan.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,000.00

Prior Appropriations \$600.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$400.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Preliminary Plans		X				

## 0008 Water Preliminary Design & Engineering Support

### Description:

Preliminary design, CIP project estimates, hydraulic studies, well field modeling, permitting, control system studies, aerial imaging, GIS records, and other digital records - to sustain the existing system.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$1,045.00

Prior Appropriations \$695.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$25.00	\$25.00	\$50.00	\$50.00	\$100.00	\$100.00	\$350.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Preliminary Plans	X	X	X	X	X	X

## 0758 Water General System Improvements

### Description:

Projects to improve reliability, redundancy, control, monitoring, water quality, and asset management.

Example projects include:

Asset management system: \$90k - FY16/17

Southeast PS PRV: \$167k - FY16/17

Pioneers Reservoir Valve: \$347k - FY19/20

51st Street Reservoir Valve Automation: \$380k - FY19/20

Reservoir mixing equipment for water quality: \$810k - FY20/21

Pressure monitoring stations: on-going

Arsenic treatment: \$1,000k - FY17/18

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

**Project Total:** \$3,850.00

**Prior Appropriations** \$100.00

**Costs Beyond:** \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000.00
Utility Revenues	\$250.00	\$400.00	\$250.00	\$700.00	\$1,050.00	\$100.00	\$2,750.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X
Equipment	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X

## 0798 New Water Pumping, Storage & Transmission

### Description:

Projects include new pumping stations, water reservoirs and water transmission mains required for distribution of water in Lincoln to meet the projected growth demands. Projects are usually a result of the Water Master Plan and Comprehensive Plan growth projections.

Example projects include:

Yankee Hill Pump Station: \$5.0M - FY16/17

1-80 & 56th Pump Station (CIF funded): \$1.240M - FY18/19

NW 12th Pump Station: \$3.8M - FY19/20

98th Street Transmission Main, 54": \$11.7M - FY21/22. This funding is the first year of a total project amount estimated to be \$36M at time of construction in FY23/24.

<b>Group:</b>	General System Improvements
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

**Project Total:** \$20,740.00

**Prior Appropriations** \$0.00

**Costs Beyond:** \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Community Improvement Financing	\$0.00	\$0.00	\$1,240.00	\$0.00	\$0.00	\$0.00	\$1,240.00
Impact Fee Revenues	\$300.00	\$0.00	\$0.00	\$700.00	\$0.00	\$0.00	\$1,000.00
Revenue Bonds	\$3,700.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$6,700.00
Utility Revenues	\$0.00	\$0.00	\$0.00	\$100.00	\$0.00	\$11,700.00	\$11,800.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X		X	X		
Final Plans	X			X		
Other						X

## 0011 Infrastructure - Raw Water Supply

### Description:

Projects to rehabilitate and replace existing assets associated with raw water supply such as wells, pumps and pipelines.

Example projects include:

Replace well pumps, 76 series and 54-10: \$900k - FY16/17

Replace VFDs, 90-1 and 90-2: \$300k - FY16/17

Rehab wells, 32-A, 37-A, 49-8A, 54-5A, 56-7 and 76-3: \$227k - FY16/17

Replace well pumps, 66 series: \$300k - FY17/18

Rehab wells, On-going wells TBD: \$1,915M - FY17/18-21/20

Replace PLCs, wellfield: \$470k - FY19/20

<b>Group:</b>	Water Supply - Wells, Treatment & Transmission
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$12,240.00

Prior Appropriations \$9,740.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$600.00	\$300.00	\$800.00	\$400.00	\$400.00	\$2,500.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X	X	X	X	X
Equipment		X		X		
Other		X	X	X	X	X

## 0756 New Source of Water Supply

### Description:

Evaluate potential water supply sources independent from the current supply near the Platte River. Project includes site evaluations, site selection and purchase options for land associated with new source of supply. This project also establishes a reserve fund for the future development of a new source of supply estimated to be \$1.5 billion when constructed in approximately 2040 - 2050. This project sets aside \$1.0 million each year beginning in FY19/20.

<b>Group:</b>	Water Supply - Wells, Treatment & Transmission
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	01/01/2040
<b>Rating:</b>	C
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$6,750.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$650.00	\$0.00	\$3,100.00	\$0.00	\$0.00	\$0.00	\$3,750.00
Utility Revenues	\$0.00	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$1,000.00	\$3,000.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Final Plans	X					
Land Acquisition			X			
Other				X	X	X

**0760 New Water Supply Wells**

**Description:**

Project will provide for the completion of collector well #14-2 which was partially constructed in 2013 to take advantage of favorable costs and permitting efficiencies. This project includes a pipeline crossing of the Platte River to join this well with an existing raw water transmission main to the treatment plant. Future funding also includes river bank stabilization in various locations to better protect well #14-2 and future collector well locations with construction planned for 18/19.

<b>Group:</b>	Water Supply - Wells, Treatment & Transmission
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$10,500.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Impact Fee Revenues	\$1,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200.00
Revenue Bonds	\$8,800.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00	\$9,300.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X		X			
Final Plans			X			

**0757 Infrastructure - Water Pumping, Storage & Trans.**

**Description:**

Various projects to rehabilitate or replace existing assets in Lincoln used in pumping, storing and transmission of water within the Lincoln distribution system.

Example projects include:

- Decommission A Street Reservoirs 4&5: \$1,350k - FY16/17
- Replace various motors, drives and electrical at Vine Street: \$750k - FY17/18
- Decommission Cheney Booster PS: \$276k - FY18/19
- Replace Pump 6 East Vine: 2.5M - 19/20
- Decommission Fallbrook Booster PS: \$300k - FY20/21
- Decommission Merrill Street PS: \$300k - FY20/21
- Replace 90-30 PLCs in Lincoln Distribution Facilities: \$340 - FY20/21

<b>Group:</b>	Pump Stations
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$6,900.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$1,350.00	\$450.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$2,800.00
Utility Revenues	\$200.00	\$450.00	\$500.00	\$2,750.00	\$0.00	\$200.00	\$4,100.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X

## 0565 Water Mains and Meters-Locations To Be Determined

### Description:

Water distribution mains and meters to serve the growth of the community, in accordance with the Comp Plan. Mains to be constructed in Impact Fee Areas 1-7 - at locations - in pressure districts - in years to be determined. Eligible projects are to be considered from the "To Be Determined" listings of projects in Projects #0043, #0044, #0045, #0046, #0047, #0048, and #0049 - Water Distribution Mains - Areas 1-7.

\$0.25 million will be set aside each year for economic development projects.  
\$0.13-\$0.16 million is projected for new water meters associated with growth and development projects.

Funding amounts shown are estimated to be available for growth related projects in all 7 Water Distribution Main Areas. Not all projects listed as "To Be Determined" can be funded with estimated funding amounts.

Priority will be given to Opportunity Projects - Opportunities to extend water mains through an area where permanent paving will be placed, opportunities for economic development, and necessary looping to provide reliable service to growth areas.

**Project Total:**\$22,885.00

**Prior Appropriations** \$4,500.00

**Costs Beyond:** \$0.00

<b>Group:</b>	Distribution Mains
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	C
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Impact Fee Revenues	\$350.00	\$350.00	\$350.00	\$350.00	\$350.00	\$350.00	\$2,100.00
Utility Revenues	\$1,385.00	\$2,290.00	\$1,895.00	\$1,350.00	\$8,155.00	\$1,210.00	\$16,285.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X
Equipment	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X

## 0799 Water Distribution System Improvements

### Description:

Projects to improve capacity and reliability in the existing distribution system. Some projects are a result of hydraulic modeling performed as part of the Water Master Plan. Example projects include:

Various water mains for looping and fire flow

Water main loop for reliability to Innovation Campus: \$1.8M - FY19/20

Water main loop for Belmont zone, Coddington, A - O: \$1.1M - FY20/21

<b>Group:</b>	Distribution Mains
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

**Project Total:**\$4,875.00

**Prior Appropriations** \$0.00

**Costs Beyond:** \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$0.00	\$0.00	\$1,800.00	\$1,000.00	\$0.00	\$2,800.00
Utility Revenues	\$500.00	\$275.00	\$350.00	\$450.00	\$300.00	\$200.00	\$2,075.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X



## 0043 Water Distribution Mains - Area 1

### Description:

Water distribution mains to serve the growth of the community, in accordance with the Comp Plan. Mains to be constructed in Impact Fee Benefit Area 1 - at locations - in pressure districts - in years listed or to be determined (TBD):

NW 56th, "O" to Holdrege to Partridge - Belmont - Annexation Agreement - 2017 - \$2,400.0

Holdrege, NW 56th to NW 48th - Belmont - Annexation Agreement -2018 - \$600.0

NW 48th, Cuming to Fletcher - Belmont - TBD - \$750.0

NW 56th, Superior to Cuming to NW 53rd - Belmont - TBD - \$800.0

See Project #0565 "Water Mains and Meters-Locations To Be Determined" for funding amounts estimated to be available for growth related projects in all 7 Water Distribution Main Areas. Not all projects listed can be funded with available funding amounts.

Project Total:\$3,000.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

<b>Group:</b>	Distribution Mains
<b>Program:</b>	Impact Fee Benefit Area 1
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$2,400.00	\$600.00	\$0.00	\$0.00	\$0.00	\$3,000.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X	X			

## 0044 Water Distribution Mains - Area 2

### Description:

Water distribution mains to serve the growth of the community, in accordance with the Comp Plan. Mains to be constructed in Impact Fee Benefit Area 2 - at locations - in pressure districts - in years listed or to be determined (TBD):

Alvo, NW 12th to NW 20th - NWB - TBD - annexation - \$500.0

Highland View annexation - NWB - 2018 - \$100.0

14th & Alvo to 27th & Arbor - Belmont - annexation - \$1,400.0 - 2020

NW 12th - Little Bear south 1/4 mi. - NWB - annexation agreement - 2017 - \$300.0

See Project #0565 "Water Mains and Meters-Locations To Be Determined" for funding amounts estimated to be available for growth related projects in all 7 Water Distribution Main Areas. Not all projects listed can be funded with estimated funding amounts.

Project Total:\$2,440.00

Prior Appropriations \$640.00

Costs Beyond: \$0.00

<b>Group:</b>	Distribution Mains
<b>Program:</b>	Impact Fee Benefit Area 2
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$300.00	\$0.00	\$100.00	\$1,400.00	\$0.00	\$0.00	\$1,800.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X		X	X		
Final Plans	X			X		

## 0046 Water Distribution Mains - Area 4

### Description:

Water distribution mains to serve the growth of the community, in accordance with the Comp Plan. Mains to be constructed in Impact Fee Benefit Area 4 - at locations - in pressure districts - in years shown or To Be Determined (TBD):

Havelock, 70th to 84th - LD - TBD - \$1,400.0

Holdrege, 98th to Cessna Lane - HD - Annexation Agreement - 2016 - \$700.0

"O" St, 84th to 98th - HD - Annexation Agreement - 2015 - \$2,000.0

"O" St, 98th to 105th - HD - TBD - \$1,100.0

Cornhusker, 84th to 98th - LD - TBD - \$1,300.0

84th, Havelock to Fletcher - LD - TBD - \$900.0

See Project #0565 "Water Mains and Meters-Locations To Be Determined" for funding amounts estimated to be available for growth related projects in all 7 Water Distribution Main Areas. Not all Projects listed can be funded with estimated funding amounts.

**Project Total:** \$2,700.00

**Prior Appropriations** \$2,000.00

**Costs Beyond:** \$0.00

<b>Group:</b>	Distribution Mains
<b>Program:</b>	Impact Fee Benefit Area 4
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$700.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$700.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X					
Final Plans	X					

## 0048 Water Distribution Mains - Area 6

### Description:

Water distribution mains to serve the growth of the community, in accordance with the Comp Plan. Mains to be constructed in Impact Fee Benefit Area 6 - at locations - in pressure districts - and in years shown or to be determined (TBD) such as.

Rokeby, 27th east - SE - 2018 - \$500.0

Rokeby, 40th to 48th - SE - 2015 - Annexation Agreement - \$500.0

84th, Yankee Hill to Rokeby - CB - 2016 - Pending Annexation Agreement - \$1,500.0 (Prior Appropriations)

Rokeby, 77th to 84th - CB - 2016 Pending Annexation Agreement - \$500.0 (Prior Appropriations)

84th, Rokeby to 1/2 mi south - CB - TBD - Pending Annexation Agreement - \$500.0

Rokeby, 84th to 94th - CB - 16/17 - Annexation Agreement and MOU w/LES - \$450.0

56th St, Yankee Hill Rd to 1/2 mile south - SE - TBD - \$750.0

See Project #0565 "Water Mains and Meters-Locations To Be Determined" for funding amounts estimated to be available for growth related projects in all 7 water Distribution Main Areas. Not all projects listed can be funded with estimated funding amounts.

**Project Total:** \$1,450.00

**Prior Appropriations** \$500.00

**Costs Beyond:** \$0.00

<b>Group:</b>	Distribution Mains
<b>Program:</b>	Impact Fee Benefit Area 6
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Other Financing	\$450.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$450.00
Utility Revenues	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X				
Final Plans		X				

## 0049 Water Distribution Mains - Area 7

### Description:

Water distribution mains to serve the growth of the community, in accordance with the Comp Plan. Mains to be constructed in Impact Fee Benefit Area 7 - at locations - in pressure districts - in years shown or to be determined (TBD) such as:

W. Denton Road, Folsom to S 1st - Belmont - 2018 - \$550.0  
 W Van Dorn, SW 33rd to Coddington - TBD - \$1,400.0  
 Secondary Feed to S. Folsom - Belmont - TBD - \$1,000.0

See Project #0565 "Water Mains and Meters-Locations To Be Determined" for funding amounts estimated for growth related projects in all 7 Water Distribution Main Areas. Not all projects listed can be funded with estimated funding amounts.

<b>Group:</b>	Distribution Mains
<b>Program:</b>	Impact Fee Benefit Area 7
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Continued
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total: \$550.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$550.00	\$0.00	\$0.00	\$0.00	\$0.00	\$550.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X				
Final Plans		X				

## 0039 Water System Reimbursement to Development

### Description:

Contribution to developers to upsize water mains to 12" & 16" sizes on distribution system grid. Provides adequate flows for fire protection and looping for reliability in distribution system - to provide for growth. Also provides funding for Water Districts that are created to address areas where water mains have not been installed to serve properties in established neighborhoods.

<b>Group:</b>	Dist Capacity/Subsidy to Street Construction
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	C
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total: \$2,600.00

Prior Appropriations \$800.00

Costs Beyond: \$0.00

### 6 yr appropriations

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$250.00	\$250.00	\$300.00	\$300.00	\$350.00	\$350.00	\$1,800.00

### 6 yr estimated cost by activity

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X

**0040 Water System Reimbursement to Street Construction**

**Description:**

To reimburse the cost to lower or relocate water mains that conflict with paving line and grade. A betterment cost formula that takes into account the age and condition of the existing water main may be used to determine the cost share between Water and Street Construction funding.

<b>Group:</b>	Dist Capacity/Subsidy to Street Construction
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	B
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$3,100.00

Prior Appropriations \$1,700.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Utility Revenues	\$500.00	\$500.00	\$100.00	\$100.00	\$100.00	\$100.00	\$1,400.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X

**0031 Infrastructure - Water Mains and Meters**

**Description:**

Projects to replace existing water mains and meters that have served their useful life.

Water main replacement selection is based on frequency of broken mains, history of interruption of traffic and commercial or industrial customers, and/or opportunities to time construction with other improvements such as roadways. Funding goal for Water Main Replacement should be \$6.8 to \$9.0 million per year, which corresponds to a replacement rate of approximately 7 miles per year. This is considered an initial rate of water main replacement required to maintain the annual water main breaks below 14 per 100 miles of water main.

Water meter replacement is generally based on a battery life estimated to be 18 - 22 years for earlier models installed in the late 1990s.

<b>Group:</b>	Select Replace/Repair/Const Wastewater Facilities
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	Ongoing
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$65,930.00

Prior Appropriations \$16,700.00

Costs Beyond: \$0.00

**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$5,500.00	\$6,350.00	\$7,850.00	\$8,350.00	\$8,700.00	\$0.00	\$36,750.00
Utility Revenues	\$530.00	\$545.00	\$560.00	\$580.00	\$600.00	\$9,665.00	\$12,480.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction	X	X	X	X	X	X
Equipment	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X

**0796 Infrastructure - Water Treatment, HS Pump & Trans.**

**Description:**

Projects to rehabilitate and replace existing assets associated water treatment, high service pumping and transmission pipelines to Lincoln.  
 Replace chemical feed system: \$1.9M - FY17/18-18/19  
 Rehab high service pumps #4, #5, & #6: \$226k - FY17/18-19/20  
 Replace PLCs in treatment plant: \$75k - FY19/20

<b>Group:</b>	Treatment Facilities
<b>Program:</b>	(None)
<b>Budget Outcome:</b>	Environmental Quality
<b>Budget Goal:</b>	Provide safe and adequate water
<b>Date Anticipated:</b>	
<b>Rating:</b>	A
<b>Status:</b>	New
<b>Comp Plan Conformity:</b>	Generally Conforms with Plan

Project Total:\$2,200.00

Prior Appropriations \$0.00

Costs Beyond: \$0.00

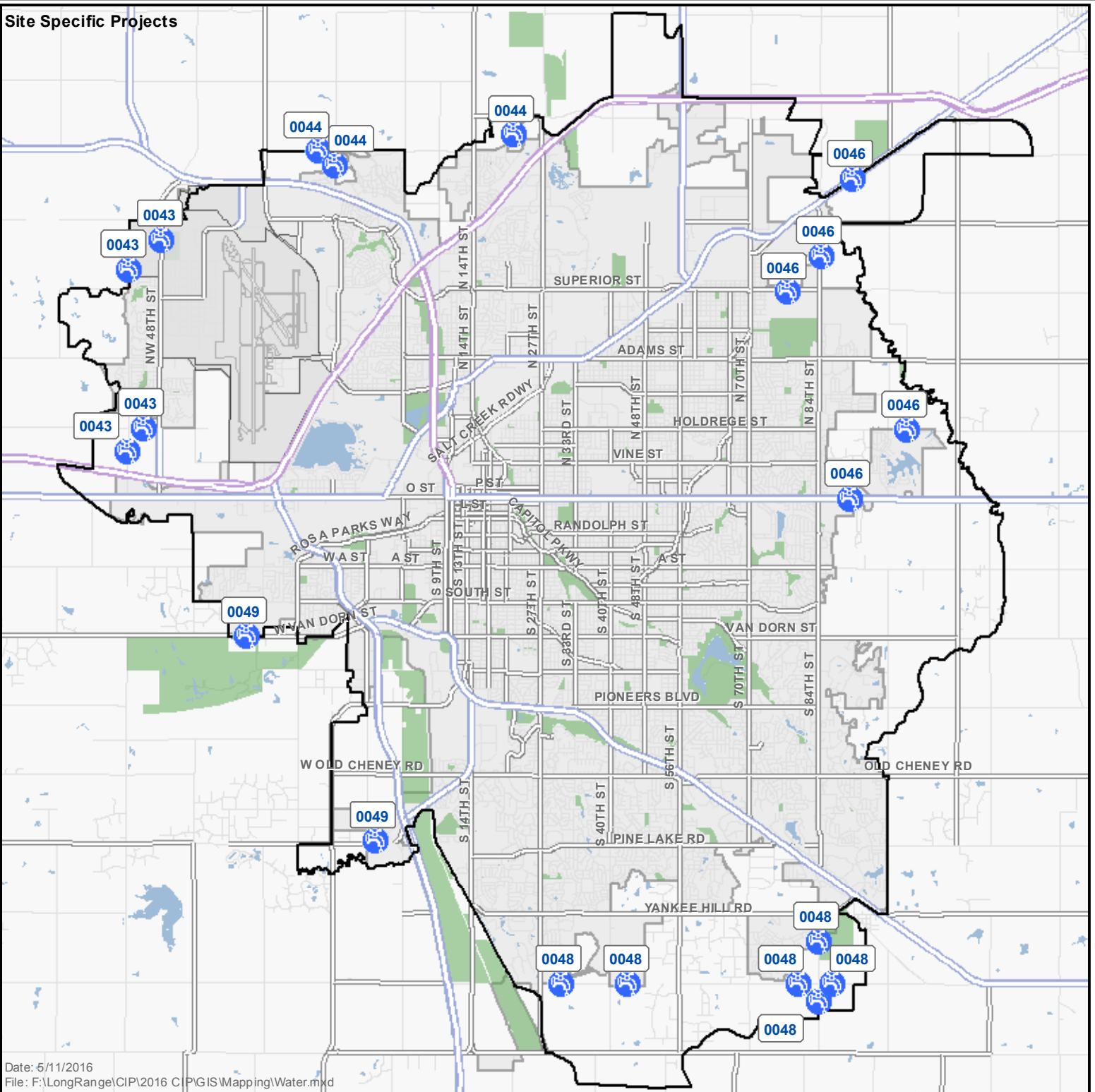
**6 yr appropriations**

<u>Funding Source</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>6 yr Total</u>
Revenue Bonds	\$0.00	\$300.00	\$1,600.00	\$0.00	\$0.00	\$0.00	\$1,900.00
Utility Revenues	\$0.00	\$200.00	\$0.00	\$100.00	\$0.00	\$0.00	\$300.00

**6 yr estimated cost by activity**

<u>Activity type</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>
Construction		X	X	X		
Final Plans		X	X	X		

Site Specific Projects



Date: 5/11/2016  
 File: F:\LongRange\CIP\2016 CIP\GIS\Mapping\Water.mxd

# Lincoln CIP 2016 - 2022

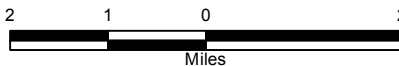
## Water



Project Locations

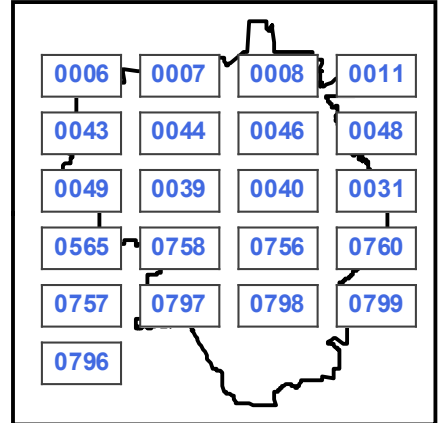


Last 4 digits of project number  
 Lincoln's Future Service Limit  
 Shown as Black Outline



Consult the detailed project descriptions  
 and funding summary for further information.

### Projects with Citywide Benefit



## Funding Summary - By Project

\* Amounts are in thousands of dollars

### Public Works/Utilities - Water

Project Title	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
0797 Infrastructure - Water Structures	100.00	200.00	100.00	100.00	1,100.00	0.00	\$1,600.0
0006 Water Security Upgrade	100.00	200.00	200.00	200.00	50.00	50.00	\$800.0
0007 Water Facilities Master Plan	0.00	400.00	0.00	0.00	0.00	0.00	\$400.0
0008 Water Preliminary Design & Engineering Support	25.00	25.00	50.00	50.00	100.00	100.00	\$350.0
0758 Water General System Improvements	250.00	1,400.00	250.00	700.00	1,050.00	100.00	\$3,750.0
0798 New Water Pumping, Storage & Transmission	4,000.00	0.00	1,240.00	3,800.00	0.00	11,700.00	\$20,740.0
0011 Infrastructure - Raw Water Supply	0.00	600.00	300.00	800.00	400.00	400.00	\$2,500.0
0756 New Source of Water Supply	650.00	0.00	3,100.00	1,000.00	1,000.00	1,000.00	\$6,750.0
0760 New Water Supply Wells	10,000.00	0.00	500.00	0.00	0.00	0.00	\$10,500.0
0757 Infrastructure - Water Pumping, Storage & Trans.	1,550.00	900.00	500.00	2,750.00	1,000.00	200.00	\$6,900.0
0565 Water Mains and Meters-Locations To Be	1,735.00	2,640.00	2,245.00	1,700.00	8,505.00	1,560.00	\$18,385.0
0799 Water Distribution System Improvements	500.00	275.00	350.00	2,250.00	1,300.00	200.00	\$4,875.0
0043 Water Distribution Mains - Area 1	0.00	2,400.00	600.00	0.00	0.00	0.00	\$3,000.0
0044 Water Distribution Mains - Area 2	300.00	0.00	100.00	1,400.00	0.00	0.00	\$1,800.0
0046 Water Distribution Mains - Area 4	700.00	0.00	0.00	0.00	0.00	0.00	\$700.0
0048 Water Distribution Mains - Area 6	450.00	500.00	0.00	0.00	0.00	0.00	\$950.0
0049 Water Distribution Mains - Area 7	0.00	550.00	0.00	0.00	0.00	0.00	\$550.0
0039 Water System Reimbursement to	250.00	250.00	300.00	300.00	350.00	350.00	\$1,800.0
0040 Water System Reimbursement to Street	500.00	500.00	100.00	100.00	100.00	100.00	\$1,400.0
0031 Infrastructure - Water Mains and Meters	6,030.00	6,895.00	8,410.00	8,930.00	9,300.00	9,665.00	\$49,230.0
0796 Infrastructure - Water Treatment, HS Pump &	0.00	500.00	1,600.00	100.00	0.00	0.00	\$2,200.0

	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
<b>Department Totals:</b>	27,140.00	18,235.00	19,945.00	24,180.00	24,255.00	25,425.00	\$139,180.0

**Funding Sources**

Fund Source	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
Community Improvement Financing	\$0.0	\$0.0	\$1,240.0	\$0.0	\$0.0	\$0.0	\$1,240.0
Impact Fee Revenues	\$1,850.0	\$350.0	\$350.0	\$1,050.0	\$350.0	\$350.0	\$4,300.0
Other Financing	\$450.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$450.0
Revenue Bonds	\$20,000.0	\$8,100.0	\$13,050.0	\$13,150.0	\$10,700.0	\$0.0	\$65,000.0
Utility Revenues	\$4,840.0	\$9,785.0	\$5,305.0	\$9,980.0	\$13,205.0	\$25,075.0	\$68,190.0
	<b>\$27,140.0</b>	<b>\$18,235.0</b>	<b>\$19,945.0</b>	<b>\$24,180.0</b>	<b>\$24,255.0</b>	<b>\$25,425.0</b>	<b>\$139,180.0</b>

	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	Total
<b>Report Total:</b>	\$27,140.0	\$18,235.0	\$19,945.0	\$24,180.0	\$24,255.0	\$25,425.0	\$139,180.0