

Capital Improvement Program

FY 2018/19
– 2023/24



Public Works & Utilities

- Broadband Infrastructure
- Solid Waste Operations
- StarTran
- 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, masonry, and HVAC systems.

Example projects include:

Ongoing building rehabilitation projects such as masonry repair, roof replacements, and exterior concrete replacement.

Repaint Ashland Fuel Tank: \$120 - FY19/20

Repaint Merrill Street Surge Reservoir: \$150 - FY20/21

Repaint Air Park Reservoir: \$1,000 - FY22/23

Replace Ashland East WTP HVAC System: \$800 - FY22/23

Clean, repair and recoat NW12th Reservoir: \$450 - FY23/24

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

Project Total: \$11,950.00

Prior Appropriations \$300.00

Costs Beyond: \$8,100.00

6 yr appropriations

Funding Source	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	6 yr Total
Utility Revenues/Bonds	\$350.00	\$150.00	\$250.00	\$500.00	\$1,800.00	\$500.00	\$3,550.00

6 yr estimated cost by activity

Activity type	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
Construction	X	X	X	X	X	X
Equipment					X	
Final Plans	X	X	X	X	X	X

0006 Water Security Upgrade

Description:

Projects to provide security improvements as recommended in the vulnerability assessment including fencing, surveillance systems, and access control measures.

Example projects include:

A Street Pump Station: \$100 - FY18/19

Airpark Reservoir: \$210 - FY19/20

Vine Street Pump Station: \$210 - FY20/21

Cheney Reservoir: \$105 - FY21/20

North Well Field: \$300 - FY22/23

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

Project Total: \$7,090.00

Prior Appropriations \$3,140.00

Costs Beyond: \$3,150.00

6 yr appropriations

Funding Source	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	6 yr Total
Utility Revenues/Bonds	\$0.00	\$150.00	\$200.00	\$100.00	\$300.00	\$50.00	\$800.00

6 yr estimated cost by activity

Activity type	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024
Construction		X	X	X	X	X
Final Plans		X	X	X	X	X

0007 Water Facilities Master Plan

Description:

Project provides for the ongoing evaluation and recommendations for future water system improvements including supply, treatment, transmission, pumping, storage and distribution to provide a safe and an adequate water supply. A comprehensive master plan is performed every 10 years with an update provided mid-term. The mid-term planning effort also includes one or more topic specific evaluations of the water system. The City's Comprehensive Plan provides the basis for growth related improvements and in determining future water demands.

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

Project Total: \$4,600.00

Prior Appropriations \$1,000.00

Costs Beyond: \$2,600.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Preliminary Plans					X	

0008 Water Preliminary Design & Engineering Support

Description:

Projects provide for the evaluation and recommendations related to well field modeling and capacity, water supply permitting, water supply evaluations, CIP project estimates, and other miscellaneous engineering analysis.

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

Project Total: \$4,310.00

Prior Appropriations \$745.00

Costs Beyond: \$2,985.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues	\$150.00	\$50.00	\$100.00	\$100.00	\$130.00	\$50.00	\$580.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Preliminary Plans	X	X	X	X	X	X

0758 Water General System Improvements

Description:

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

Example projects include:

Pressure Monitoring Stations: On-going
 Remote Radio Upgrades Well field: \$100 - FY18/19
 Ashland WTP Campus WIFI: \$50 - FY18/19
 Southeast Pump Station PRV, SE to High: \$167 - FY18/19
 Residual Chloramine Control System, Cheney Zone: \$500 - FY18/19
 Anti-Cavitation Improvements at SE PS: \$150 - FY18/19
 Valve Replacement and Automation at 51st PS: \$380 - FY19/20
 Anti-Cavitation Improvements at Belmont PS: \$150 FY20/21
 Control Valve for Pioneers Reservoir: \$347 - FY 19/20
 Tank Mixing Improvements: \$810 - FY20/21
 70th and Yankee Woods Dr PRV, Cheney to SE: \$274 - FY20/21
 Pioneers PS AFD: \$250 - FY21/22
 12th and O Street PRV: \$213 - FY21/22

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

Project Total:\$12,000.00

Prior Appropriations \$1,750.00

Costs Beyond: \$8,200.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$250.00	\$1,200.00	\$500.00	\$50.00	\$50.00	\$2,050.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction		X	X	X		
Equipment		X	X	X	X	X
Final Plans		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 projected growth demands and improve water distribution. Projects are primarily a result of the Water Master Plan and Comprehensive Plan growth projections. Note, the 98th Street transmission main shown in the previous CIP has been rescheduled and is included in costs beyond.

Example projects include:

NW 12th Pump Station: \$3,800 - FY19/20
 New Pump #8 at East Vine PS: \$2,450 - FY19/20
 New Fallbrook Elevated Reservoir: \$6,400 - FY21/22 - FY22-23
 134th and Adams Reservoir and Pipeline (engineering): \$4,500 - FY23/24

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

Project Total:\$188,600.00

Prior Appropriations \$4,000.00

Costs Beyond: \$169,100.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$4,600.00	\$0.00	\$2,000.00	\$4,400.00	\$4,500.00	\$15,500.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction		X		X	X	X
Final Plans		X		X	X	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:

Rehab wells, On-going wells TBD: \$2,042 - FY18/19-23/24
 Replace PLCs in wellfield: \$550 - FY19/20
 90-1 and 90-2 Well Inspection and Condition Assessment: \$100 - FY20/21
 Existing Wellfield Assessment: \$100 - FY20/21

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

Project Total: \$21,240.00

Prior Appropriations \$10,340.00

Costs Beyond: \$8,100.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$300.00	\$850.00	\$550.00	\$350.00	\$350.00	\$400.00	\$2,800.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction	X	X	X	X	X	X
Equipment	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X
Preliminary Plans			X			

0756 New Source of Water Supply

Description:

Projects provide for the development of a second source of water supply including the creation of a reserve fund to pay for future design and construction of a second wellfield, treatment plant and transmission main to Lincoln. Estimated costs for a second source of water supply is \$1.5 billion when constructed in approximately 2040 - 2050. This project sets aside \$1.0 - \$2.0 million beginning in FY19/20. Costs beyond include increased annual funding of the reserve as well as bonding.

Example projects include

Hydro-geologic evaluation and site selection: \$3,750 - FY18/19 - FY19/20
 Ongoing Reserve Fund: \$8,000 - FY19/20 - FY23/24

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

Project Total: \$1,141,450.00

Prior Appropriations \$650.00

Costs Beyond: \$1,129,700.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$4,100.00	\$1,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$11,100.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Land Acquisition		X				
Other		X	X	X	X	X

0760 New Water Supply Wells

Description:

Project provides for the ongoing development of the Ashland wellfield to ensure an adequate and reliable water supply to meet projected growth demands and summer water demands during drought conditions. Projects are a result of the Water Master Plan and Comprehensive Plan growth projections. Funding shown in FY22/23 - FY23/24 is for the design and construction of an additional collector well.

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

Project Total: \$65,500.00

Prior Appropriations \$10,000.00

Costs Beyond: \$35,000.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Impact Fee Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,500.00	\$6,500.00
Utility Revenues/Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$4,000.00	\$10,000.00	\$14,000.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						X
Final Plans					X	

0874 New Water Treatment & High Service Pumping

Description:

Projects provide for the necessary expansion and improvements to water treatment facilities and high service pumping to Lincoln. Projects are a result of growth requiring increased capacity or improvements necessary to meet water quality standards as recommended in the Water Master Plan.

Example Projects Include:

Expansion of the Ashland West WTP (design): \$2,600 - FY23/24
 New High Service Pump #13: \$2,500 - FY23-24

Group:	Water Supply - Wells, Treatment & Transmission
Program:	(None)
Budget Outcome:	Environmental Quality
Budget Goal:	Provide safe and adequate water
Date Anticipated:	
Rating:	B
Status:	Ongoing
Comp Plan Conformity:	In Conformance With Plan

Project Total: \$231,600.00

Prior Appropriations \$0.00

Costs Beyond: \$226,500.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,100.00	\$5,100.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						X
Final Plans						X

0757 Infrastructure - Lincoln Pumping, Storage & Trans.

Description:

Projects to rehabilitate or replace existing assets in Lincoln used for pumping, storage and transmission of water within the distribution system.

Example projects include:

Ongoing pipe painting and electrical equipment replacements at pump stations
 Northeast Pump #1 VFD replacement: \$100 - FY18/19
 Repurpose S56th Pump Station: \$300 - FY19/20
 Replace 90-30 PLCs in Lincoln Distribution Facilities: \$375 - FY20/21
 Replace 31st Street Valve (Gravity Feed to A Street): \$353 - FY20/21
 Decommission Merrill Street PS: \$325 - FY21/22
 Decommission NW12th PS: \$350 - FY22/23
 Decommission Cheney Booster PS: \$352 - FY23/24

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

Project Total: \$5,325.00

Prior Appropriations \$2,450.00

Costs Beyond: \$0.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$300.00	\$375.00	\$800.00	\$500.00	\$400.00	\$500.00	\$2,875.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction	X	X	X	X	X	X
Equipment	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.

\$0.18-\$0.21 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: \$158,133.00

Prior Appropriations \$8,875.00

Costs Beyond: \$129,063.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</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/Bonds	\$1,895.00	\$1,350.00	\$2,650.00	\$3,150.00	\$4,150.00	\$4,900.00	\$18,095.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction	X	X	X	X	X	X
Equipment	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X

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

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

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

Project Total: \$12,864.00

Prior Appropriations \$775.00

Costs Beyond: \$7,489.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$350.00	\$2,250.00	\$1,300.00	\$200.00	\$250.00	\$250.00	\$4,600.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</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):

NW56th, 'O' to Holdrege to Partridge - Belmont - Annexation Agreement - \$2,400.0 (prior appropriations)
 Holdrege, NW56th to NW48th - Belmont - Annexation Agreement - FY18/19 - \$600.0
 Holdrege, NW40th to NW48th - Belmont - TBD - \$400.0
 NW48th, Cuming to Fletcher - Belmont - TBD - \$750.0
 NW56th, Superior to Cuming to NW53rd - 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.

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

Project Total: \$3,000.00

Prior Appropriations \$2,400.00

Costs Beyond: \$0.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$600.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction	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, NW12th to NW20th - NWB - TBD - annexation - \$500.0
 Highland View annexation - NWB - FY18/19 - \$100.0
 14th/Alvo to 27th/Arbor - Belmont - annexation - \$1,400.0 - FY19/20
 NW12th - Little Bear south 1/4 mi. - NWB - annexation agreement - \$300.0 (prior appropriations)

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.

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

Project Total: \$2,440.00

Prior Appropriations \$940.00

Costs Beyond: \$0.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$100.00	\$1,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,500.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction	X	X				
Final Plans		X				

0045 Water Distribution Mains - Area 3

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 3 - at locations - in pressure districts - in years shown or to be determined (TBD):

Arbor Rd, 40th to 52nd - LD - TBD - \$1,800.0
 27th, Folkways to Fletcher - LD - TBD - \$550.0
 Arbor Rd, 56th to 52nd - LD - TBD - \$400.0
 27th/Arbor to 40th/McKelvie - Belmont - TBD - \$1,800.0

Redevelopment Agreement: Community Improvement Financing
 52nd and Arbor, north to North ROW of I-80 - LD/Belmont - TBD - \$500.0 CIF
 North ROW of I-80 at 52nd to 56th and 1/2 mi. south of Bluff Rd - Belmont - TBD - \$850.0 CIF
 40th, McKelvie to Bluff Rd - Belmont - TBD - \$1,200.0 CIF
 McKelvie, 56th to 40th - Belmont - TBD - \$1,100.0 CIF

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.

Group:	Distribution Mains
Program:	Impact Fee Benefit Area 3
Budget Outcome:	Environmental Quality
Budget Goal:	Provide safe and adequate water
Date Anticipated:	
Rating:	C
Status:	Continued
Comp Plan Conformity:	Generally Conforms with Plan

Project Total: \$0.10

Prior Appropriations \$0.00

Costs Beyond: \$0.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						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 Ln - HD - Annexation Agreement - \$700.0 (prior appropriations)

'O' St, 98th to 105th - HD - TBD - \$1,000.0

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

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

Holdrege, Cessna Ln to 112th, HD - TBD - \$500.0

'O' St, 105th to 112th, HD, TBD - \$1,000.0

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: \$2,700.10

Prior Appropriations \$2,700.00

Costs Beyond: \$0.00

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

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						X

0047 Water Distribution Mains - Area 5

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 5 - at locations, in pressure districts, in years shown or to be determined (TBD) such as:

'A' St, Smokey Hill to 91st - SE - TBD - \$300.0

'A' St, 94th to 98th - SE - TBD - \$300.0

Van Dorn, 91st to 98th - SE - TBD - \$500.0

98th, 'O' to 'A' - HD/SE - TBD - \$1,100.0

98th, 'A' to Van Dorn - SE - TBD - \$1,100.0

98th, Van Dorn - Pioneers - SE - TBD - \$1,200.0

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: \$0.10

Prior Appropriations \$0.00

Costs Beyond: \$0.00

Group:	Distribution Mains
Program:	Impact Fee Benefit Area 5
Budget Outcome:	Environmental Quality
Budget Goal:	Provide safe and adequate water
Date Anticipated:	
Rating:	C
Status:	Continued
Comp Plan Conformity:	Generally Conforms with Plan

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						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 south and east - HD - 2018 - Annexation Agreement - \$500.0 (prior appropriations)

Rokeby, 40th to 48th - SE - 2015 - Annexation Agreement - \$500.0 (prior appropriations)

Rokeby, 77th to 84th - CB - Annexation Agreement - \$500.0 (prior appropriations)

70th, Pine Lake to Yankee Hill - SE - TBD - \$1200

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

40th, Rokeby to Saltillo - SE - TBD - \$1,000.0

56th, Yankee Hill to Rokeby - SE - TBD - \$1,200.0

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: \$1,450.10

Prior Appropriations \$1,450.00

Costs Beyond: \$0.00

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

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						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 (prior appropriations)

W Van Dorn, SW 33rd to Coddington - Belmont - TBD - \$1,400.0

Secondary Feed to S. Folsom - HD/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.

Project Total: \$550.10

Prior Appropriations \$550.00

Costs Beyond: \$0.00

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

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.10	\$0.10

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction						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.

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

Project Total:\$13,759.00

Prior Appropriations \$1,300.00

Costs Beyond: \$10,459.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$300.00	\$300.00	\$350.00	\$350.00	\$350.00	\$350.00	\$2,000.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</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.

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

Project Total:\$11,089.00

Prior Appropriations \$2,700.00

Costs Beyond: \$7,489.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$100.00	\$100.00	\$100.00	\$100.00	\$250.00	\$250.00	\$900.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</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 \$8 to \$10 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. Funding for full lead service line replacements related to water main replacement projects are included in the totals. Funding for replacements of lead water service lines not associated with water main replacement projects is included and begins in FY 20/21. A 14 year program is planned to address 3000 lead water service lines.

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

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

Project Total: \$503,647.90

Prior Appropriations \$29,625.00

Costs Beyond: \$413,384.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$8,415.00	\$9,138.00	\$9,936.60	\$10,323.80	\$11,150.10	\$11,675.40	\$60,638.90

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction	X	X	X	X	X	X
Equipment	X	X	X	X	X	X
Final Plans	X	X	X	X	X	X
Other		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.

Example Projects Include:

Replace Aerator W-2 Trays: \$50 - FY18/19
 Replace chemical feed system: \$2,400 - FY18/19
 Rehab high service pumps #5 and #6: \$123 - FY18/19 -19/20
 Protection Relay Replacement: \$70 - FY18/19
 Replace WTP Filter Valves: \$200 - FY18/19
 Replace WTP Contact Basin W-3 24" By-pass Valve: \$15 - FY18/19
 Replace PLCs in treatment plant: \$100 - FY19/20
 Primary Electrical Service Feed Condition Assessment: \$150 - FY19-20
 Replace WTP Contact Basin Mud Valves: \$150 - FY20/21
 Repaint South PS Pipe Header: \$75 - FY20/21
 Replace Aerator W-1 Trays: \$80 - FY23-24

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

Project Total: \$407,050.00

Prior Appropriations \$500.00

Costs Beyond: \$403,500.00

6 yr appropriations

<u>Funding Source</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>	<u>6 yr Total</u>
Utility Revenues/Bonds	\$2,400.00	\$300.00	\$250.00	\$0.00	\$0.00	\$100.00	\$3,050.00

6 yr estimated cost by activity

<u>Activity type</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>2020/2021</u>	<u>2021/2022</u>	<u>2022/2023</u>	<u>2023/2024</u>
Construction		X	X			X
Equipment	X	X	X			
Final Plans	X	X	X			X

Funding Summary - By Project

* Amounts are in thousands of dollars

Public Works/Utilities - Water

Project Title	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
0797 Infrastructure - Water Structures	350.00	150.00	250.00	500.00	1,800.00	500.00	\$3,550.0
0006 Water Security Upgrade	0.00	150.00	200.00	100.00	300.00	50.00	\$800.0
0007 Water Facilities Master Plan	0.00	0.00	0.00	0.00	1,000.00	0.00	\$1,000.0
0008 Water Preliminary Design & Engineering Support	150.00	50.00	100.00	100.00	130.00	50.00	\$580.0
0758 Water General System Improvements	0.00	250.00	1,200.00	500.00	50.00	50.00	\$2,050.0
0798 New Water Pumping, Storage & Transmission	0.00	4,600.00	0.00	2,000.00	4,400.00	4,500.00	\$15,500.0
0011 Infrastructure - Raw Water Supply	300.00	850.00	550.00	350.00	350.00	400.00	\$2,800.0
0756 New Source of Water Supply	0.00	4,100.00	1,000.00	2,000.00	2,000.00	2,000.00	\$11,100.0
0760 New Water Supply Wells	0.00	0.00	0.00	0.00	4,000.00	16,500.00	\$20,500.0
0874 New Water Treatment & High Service Pumping	0.00	0.00	0.00	0.00	0.00	5,100.00	\$5,100.0
0757 Infrastructure - Lincoln Pumping, Storage & Trans.	300.00	375.00	800.00	500.00	400.00	500.00	\$2,875.0
0565 Water Mains and Meters-Locations To Be	2,245.00	1,700.00	3,000.00	3,500.00	4,500.00	5,250.00	\$20,195.0
0799 Water Distribution System Improvements	350.00	2,250.00	1,300.00	200.00	250.00	250.00	\$4,600.0
0043 Water Distribution Mains - Area 1	600.00	0.00	0.00	0.00	0.00	0.00	\$600.0
0044 Water Distribution Mains - Area 2	100.00	1,400.00	0.00	0.00	0.00	0.00	\$1,500.0
0045 Water Distribution Mains - Area 3	0.00	0.00	0.00	0.00	0.00	0.10	\$0.1
0046 Water Distribution Mains - Area 4	0.00	0.00	0.00	0.00	0.00	0.10	\$0.1
0047 Water Distribution Mains - Area 5	0.00	0.00	0.00	0.00	0.00	0.10	\$0.1
0048 Water Distribution Mains - Area 6	0.00	0.00	0.00	0.00	0.00	0.10	\$0.1
0049 Water Distribution Mains - Area 7	0.00	0.00	0.00	0.00	0.00	0.10	\$0.1
0039 Water System Reimbursement to	300.00	300.00	350.00	350.00	350.00	350.00	\$2,000.0

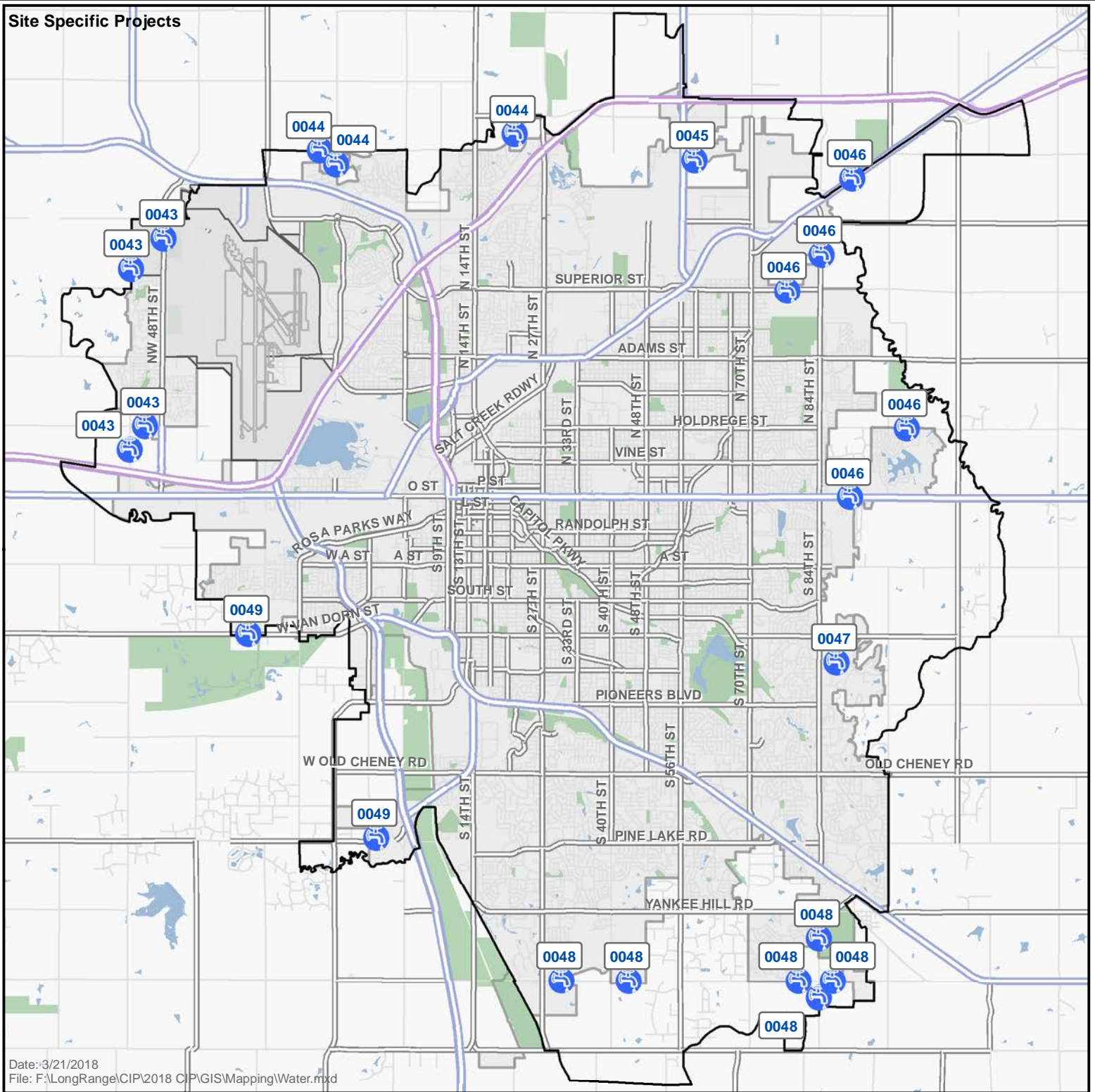
		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
0040	Water System Reimbursement to Street	100.00	100.00	100.00	100.00	250.00	250.00	\$900.0
0031	Infrastructure - Water Mains and Meters	8,415.00	9,138.00	9,936.60	10,323.80	11,150.10	11,675.40	\$60,638.9
0796	Infrastructure - Water Treatment, HS Pump &	2,400.00	300.00	250.00	0.00	0.00	100.00	\$3,050.0
Department Totals:		15,610.00	25,713.00	19,036.60	20,523.80	30,930.10	47,525.90	\$159,339.4

Funding Sources

Fund Source	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
Impact Fee Revenues	\$350.0	\$350.0	\$350.0	\$350.0	\$350.0	\$6,850.0	\$8,600.0
Utility Revenues	\$150.0	\$4,150.0	\$1,100.0	\$2,100.0	\$3,130.0	\$7,150.0	\$17,780.0
Utility Revenues/Bonds	\$15,110.0	\$21,213.0	\$17,586.6	\$18,073.8	\$27,450.1	\$33,525.9	\$132,959.4
	\$15,610.0	\$25,713.0	\$19,036.6	\$20,523.8	\$30,930.1	\$47,525.9	\$159,339.4

	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
Report Total:	\$15,610.0	\$25,713.0	\$19,036.6	\$20,523.8	\$30,930.1	\$47,525.9	\$159,339.4

Site Specific Projects



Date: 3/21/2018
 File: F:\LongRange\CIP\2018 CIP\GISMapping\Water.mxd

Lincoln CIP 2018 - 2024

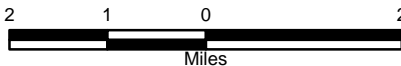
Water



Project Locations

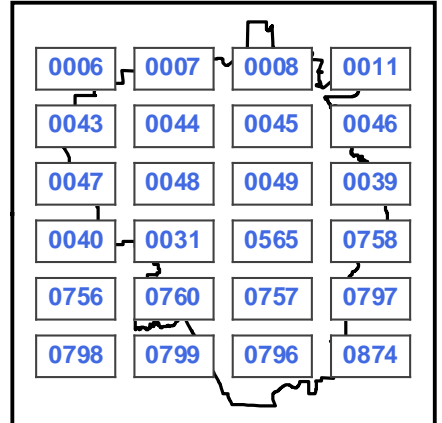


Last 4 digits of project number
 Lincoln's Future Service Limit
 Shown as Black Outline



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

Projects with Citywide Benefit



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