

St. Helena, California

# Capital Improvement Plan

2016-2021



Safety



Infrastructure



Community

DRAFT June 27, 2016



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# INTRODUCTION

The City of St. Helena’s five-year Capital Improvement Plan (CIP) is a multi-year planning instrument to guide the construction of new facilities/infrastructure; and for the expansion, rehabilitation or replacement of existing City-owned assets. The five-year CIP is developed by City Staff and adopted City Council, then becomes the guiding document for the prioritization of projects.

The information included in the CIP is based on the current information available and updated regularly to reflect changing priorities, funding availability and project completion. A new five-year CIP will be submitted to City Council annually with recommended adjustments to project budgets, funding sources, descriptions, and/or schedules. Inclusion of a project in the CIP does not commit the City to specific expenditures or appropriations for any particular project.

The CIP includes all projects and programs expected to be undertaken during the next five fiscal years. Specific projects and related schedules are selected based upon:

- Implementation of the City’s General Plan
- Availability of funding
- Minimizing disruptions associated with construction activity
- City Council direction

Approximately \$18.7 million CIP programs and projects over the next five years have been identified. The estimated project expenditures planned for the five-year CIP are broken into four major categories: Civic, Streets, Wastewater, and Water. The following table includes an overview of funding by project category for FY 16/17 – FY 20/21.

FY 16/17 – FY 20/21 Capital Improvement Plan						
Funding by Project Category						
	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Five Year Total
<b>Civic</b>	\$331,000	\$20,000	\$20,000	\$20,000	\$20,000	\$411,000
<b>Streets</b>	\$801,665	\$290,000	\$125,000	\$850,000	\$850,000	\$2,916,665
<b>Wastewater</b>	\$692,070	\$427,000	\$588,000	\$528,000	\$38,000	\$2,273,070
<b>Water</b>	\$4,801,319	\$7,179,173	\$1,078,433	\$0	\$0	\$13,058,925
<b>Total</b>	\$6,626,054	\$7,916,173	\$1,811,433	\$1,398,000	\$908,000	\$18,656,660

## A QUICK LOOK AT INFRASTRUCTURE

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### **What is infrastructure, and why is it important?**

Infrastructure includes the basic physical structures, systems, and facilities needed to provide services to residents and for the functioning of a community and its economy; such as sidewalks, streets, parks, fire stations, police facilities, and the water and wastewater systems. Infrastructure impacts public health, safety, and the quality of life for residents of St. Helena as well as other industries which are an important part of the City's economy. Decisions made regarding infrastructure projects are very important because they are generally large and expensive, and the assets created will require decades of public use.

### **What infrastructure is within the City's area of responsibility?**

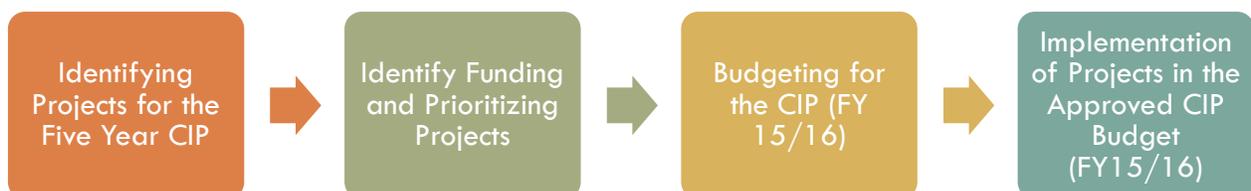
The City of St. Helena is responsible for maintaining storm drains, streets, water treatment and distribution system, wastewater collection and treatment system, parks, and City government buildings and facilities. Napa County, State of California, and U.S. governments may also have responsibility for certain assets within the City of St. Helena. For example, the California Department of Transportation (Caltrans) has jurisdiction and responsibility for State Route 29 (Main Street).

### **What happens when infrastructure assets are not maintained?**

Providing ongoing maintenance and repair, such as resurfacing streets and repairing or replacing water and wastewater piping, is vital for maintaining the condition of assets. When maintenance and repair is not fully funded, deferred maintenance and capital improvement costs increase significantly. The City has not fully funded maintenance and repair due to tight budgetary constraints and competing priorities for several years. As a result the City now has a multi-million dollar backlog in deferred maintenance of storm drains, streets, water treatment and distribution system, wastewater collection and treatment system, parks, and City government buildings and facilities. For example, the 2014 Pavement Management Program Update calculated a \$6.2 million backlog for street maintenance in St. Helena. Without adequate investment, these deferred maintenance costs will increase significantly over time.

Compounding the problem, as assets continue to deteriorate, the cost of repair exponentially increases and can result in peripheral damage. For example, deferring roof replacement could later result in needing to replace the roof structural members, walls, and floor of a building.

### **How does the CIP process work?**



# FUNDING SOURCES

The Five-Year CIP is funded by various unrestricted and restricted funds. Unrestricted funds are free from external restrictions and can be used for any purpose, as directed by the City Council. The City’s General Fund is an unrestricted fund. The General Fund is made up of funding from property tax revenues, sales tax, and transient occupancy taxes. Restricted funds are legally required to be used for a specific purpose. For example, water enterprise funds can only be used to operate, maintain, and improve the City’s water treatment and distribution system. Other examples of restricted funding sources include local, state, and federal grants; and wastewater enterprise funds. A detailed description of the various funding sources is presented in the following table.

Funding Source	Description and Restrictions
Gas Tax	<b>Description:</b>
	The Gas Tax Fund collects revenue resulting from a tax on the sale of gasoline. The City's share of gas tax revenue is based on a formula that takes into account vehicle registration, assessed property valuation, and population.
	<b>Restrictions:</b>
These funds must be used to perform research, planning, construction, improvement, maintenance, and operation of public streets and highways (and their related public facilities for non-motorized traffic), including the mitigation of their environmental effects, the payment for property taken or damaged for such purposes, and the administrative costs necessarily incurred in the foregoing purposes. There are currently five separate Gas Tax funds each with additional specific criteria.	
General Fund	<b>Description:</b>
	The primary reporting vehicle for current government revenues and operations, this fund accounts for all financial resources not required by law or City Council actions to be accounted for in another fund.
	<b>Restrictions:</b>
General Fund monies are one of the least restrictive funding sources, funding can be used for salaries, capital improvements, supplies and other municipal related expenses.	
Grant Funding	<b>Description:</b>
	Some projects are entirely or partially funded by grants and reimbursements from the State and federal government, as well as other agencies.
	<b>Restrictions:</b>

	<p>Funding restrictions related to grant funding can vary greatly, and each grant will have specific project restrictions related to the funding source.</p>
<p><b>Impact Fees</b></p>	<p><b>Description:</b></p>
	<p>In 2013, the City retained Colgan Consulting Corporation to prepare an impact fee study, analyzing the impact of development on certain capital facilities and to calculate impact fees based on that analysis. The methods used to calculate impact fees in the study were intended to satisfy all legal requirements.</p>
	<p><b>Restrictions:</b></p> <p>By Law impact fees can only be collected to cover the impact of new development on existing infrastructure. Impact fees cannot be used to correct “existing deficiencies”.</p> <p><b>CIVIC IMPACT:</b> This fund is used to accumulate restricted funds from new development’s proportionate share of the depreciated replacement cost of a range of facility types including City Hall, corporation yard facilities, as well as library and recreation facilities.</p> <p><b>PUBLIC SAFETY IMPACT FEES:</b> Section 22.5 of the City Code establishes this fund to accumulate revenues from fees on building permits to be used solely for equipment and facilities' costs for Police and the Fire Departments. Vehicles, capital equipment, and building improvements are approved uses.</p> <p><b>PARK IMPACT:</b> This fund is used to accumulate funds from new or proposed residential development solely for park land acquisition and park improvements.</p> <p><b>TRAFFIC MITIGATION (STREET) IMPACT:</b> This fund is used to accumulate funds from new or proposed development to pay for circulation improvements to reduce the impacts of traffic generated by new development within the City.</p> <p><b>WATER IMPACT:</b> This fund is used to accumulate funds from new or proposed development to pay for Water System Capital Improvements needed to support new development.</p> <p><b>WASTEWATER (SEWER) IMPACT:</b> This fund is established to account for the costs of constructing and improving the Wastewater Treatment Plant and Sewer Collection System in order to support new development.</p>
<p><b>Measure T</b></p>	<p><b>Description:</b></p> <p>Measure T resulted in a countywide half-cent sales tax increase. Money generated from the sales tax increase will be used for road repairs in the county. The amount raised by the tax is expected to be about \$300 million countywide and St. Helena will receive 5.9%</p>

	<p>of the annual revenues. Funding from Measure T will first be available to the City in 2018 and the tax will expire in 25 years.</p> <p><b>Restrictions:</b></p> <p>Measure T requires that 99% of the funds raised be spent on street maintenance and rehabilitation and only 1% can be used for administrative and reporting costs. The funds cannot be used for new roads or congestion relief —the tax is only for maintenance of local streets. Funds cannot be used to offset current City funding for road maintenance.</p>
<b>Wastewater Utility</b>	<p><b>Description:</b></p> <p>This fund is used to account for the costs of providing sewer services to the general public on a continuing basis. The intent is to recover costs through user charges and fees.</p> <p><b>Restrictions:</b></p> <p>The fund is operated in a manner similar to a private business enterprise. Funding must be used to operate, maintain, and improve the sewer system and cannot be used for other purposes.</p>
<b>Water and Wastewater Bonds</b>	<p><b>Description:</b></p> <p>California Statewide Communities Development authority Water and Wastewater revenue bonds Series 2012B.</p> <p><b>Restrictions:</b></p> <p>Funds must be expended in accordance with project descriptions in the official Statement for the bond issuance, dated May 30, 2012.</p>
<b>Water Utility</b>	<p><b>Description:</b></p> <p>This fund is used to account for the costs of providing water services to the general public on a continuing basis. The intent is to recover costs through user charges and fees.</p> <p><b>Restrictions:</b></p> <p>The fund is operated in a manner similar to a private business enterprise. Funding must be used to operate, maintain, and improve the water system and cannot be used for other purposes.</p>

## **IMPORTANT FACTS: CIP FUNDING**

- In addition to one-time construction projects, the CIP also includes ongoing maintenance and repair programs and projects. These are typically smaller projects that are expected to last for less than one year.
- The City uses “phased funding” for certain complex or expensive CIP projects. For example, a project will be started when it has sufficient funds to complete planning and design. The remaining funds needed for project completion are shown in the budget as “unidentified funding.” It is anticipated that funding to complete the construction of the project will be identified when it is needed in a future fiscal year. In some cases, funding cannot be identified when needed, resulting in a project being put on hold. The projects are generally shown in the CIP budget as “unfunded or underfunded.”
- Unless additional revenue sources are pursued, the General Fund and Water Enterprise Fund are projected to have annual operating deficits for the foreseeable future. For this reason, Capital Projects in these two categories are funded from the existing CIP fund balance and no new transfers from the General Fund or Water Enterprise Fund are proposed at this time.
- New or expanded infrastructure will frequently increase operations and maintenance costs for the asset-owning department, thus impacting the General Fund.
- The last CIP was adopted in 2012 and over the past several years funding and priorities have shifted dramatically. This is not a complete list of all the capital or infrastructure needs for the City, but the CIP is a planning tool to help guide decision making on capital projects.

# PROJECT CATEGORY SUMMARIES

## CIVIC

The Civic Improvements category comprises general government projects that focus on constructing or improving existing facilities and buildings. These projects cover all departments and focus on a variety of improvements. Funding for Civic Improvements is comprised of General Fund, grants and special restricted fund such as: the Bocce Fund or the Ryan Library Trust. At this time there is minimal funding in the special restricted funds, and no projects are planned to utilize the special restricted funding sources. The table below summarizes the funding source for Civic projects by fiscal year.

CIVIC FUNDING BY SOURCE							
Funding Source	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>FY20/21</u>	<u>Total</u>	<u>%</u>
General Fund	\$331,000	\$20,000	\$20,000	\$20,000	\$20,000	\$411,000	100%
<b>Total</b>	\$331,000	\$20,000	\$20,000	\$20,000	\$20,000	\$411,000	100%

Civic improvement projects programmed in the Capital Improvement Plan, 2016-2021 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2016/17 through Fiscal Year 2020/21, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

## CIVIC

PROJECT NUMBER	PROJECT NAME	FY16/17 BUDGET	ESTIMATED EXPENDITURES 2016-2021	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
C-09	Signorelli Barn	\$0	\$0	TBD		The funding for this project has been reallocated to other Civic Projects
C-19	Misc. Building Repairs	\$20,000	\$100,000	\$144,858		
C-46	Softball Lights	\$20,000	\$20,000	\$20,000		
C-62	Library HVAC System*	\$0	\$0			Project was completed in FY15/16
C-69	Library Roof Repairs*	\$0	\$0			Project was completed in FY15/16
C-75	City Hall/Police Facility		\$0	TBD		Project is unfunded at this time
C-80	Shooting Range Cleanup*	\$0	\$0			Project was completed in FY15/16
C-82	Downtown Restrooms	\$291,000	\$291,000	\$296,000		
<b>Total</b>		<b>\$331,000</b>	<b>\$411,000</b>	<b>\$460,858</b>		

## STREETS

The Streets category includes projects that upgrade and maintain pavement, striping, curb and gutter, street lighting, access ramps, sidewalks and storm drain infrastructure. Funding for Streets is comprised of General Fund, Gas Tax, grants, sales tax, Measure T (funding beginning in 2018) and development impact fees. The table below summarizes the funding source for Streets projects by fiscal year.

Streets							
	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>FY20/21</u>	<u>Total</u>	<u>%</u>
Gas Tax	\$701,665	\$290,000	\$125,000	\$125,000	\$125,000	\$1,366,665	47%
General Fund	\$0	\$0	\$0	\$125,000	\$125,000	\$250,000	9%
Grant-TFCA	\$30,000	\$0	\$0	\$0	\$0	\$30,000	1%
Grant-TDA	\$61,500	\$0	\$0	\$0	\$0	\$61,500	2%
Street Impact Fee	\$8,500	\$0	\$0	\$0	\$0	\$8,500	0%
Measure T	\$0	\$0	\$0	\$600,000	\$600,000	\$1,200,000	41%
Grant-STIP	\$0	\$0	\$0	\$0	\$0	\$0	0%
<b>Total</b>	<b>\$801,665</b>	<b>\$290,000</b>	<b>\$125,000</b>	<b>\$850,000</b>	<b>\$850,000</b>	<b>\$2,916,665</b>	<b>100%</b>

Street improvement projects programmed in the Capital Improvement Plan, 2016-2021 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2016/17 through Fiscal Year 2020/21, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

## STREETS

PROJECT NUMBER	PROJECT NAME	FY 16/17 BUDGET	ESTIMATED EXPENDITURES 2016-2021	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
R-05	Main Street Mills Lane/Grayson	\$8,500	<b>\$8,500</b>	\$138,340		
R-15	Access Ramps	\$20,000	<b>\$150,000</b>	\$150,000		
R-29	Curb, Gutter & Sidewalk Repair	\$20,000	<b>\$250,000</b>	\$250,000		
R-30	Pope Street Bike Lane	\$33,000	<b>\$33,000</b>	\$43,000		
R-38	Downtown Renaissance		<b>\$0</b>	TBD		Project is unfunded at this time
R-73	Hunt Ave & RLS Bike/Ped Improvements	\$0	<b>\$0</b>	\$400,000	\$400,000	Project is unfunded at this time
R-74	2015 Pavement Rehabilitation	\$264,665	<b>\$2,019,665</b>	\$2,039,495		
R-75	Valley View Street Bike Lanes	\$0	<b>\$0</b>	\$25,578		Project is complete
R-76	Mitchell Street Sidewalk	\$10,000	<b>\$10,000</b>	\$126,000		
R-77	Railroad Avenue Curb Ramp	\$61,500	<b>\$61,500</b>	\$61,500		
R-78	2016 Pavement Overlay	\$384,000	<b>\$384,000</b>	\$403,830		
<b>Total</b>		\$801,665	<b>\$2,916,665</b>	\$3,637,743		

## WASTEWATER

Wastewater collection and treatment includes projects focused on upgrading and improving the infrastructure of the wastewater system. Many of the improvements that have been identified as maintenance needs were identified through the Sewer System Management Plan (SSMP) updated in 2014. In addition to the needs identified in the SSMP, the City complies with all Regional Water Quality Control Board directives and regulatory permits. Funding for Wastewater is comprised of Wastewater rates (paid by consumers) and development impact fees. Wastewater is an enterprise fund and all improvements are planned to be constructed without General Fund contributions. The table below summarizes the funding source for Wastewater projects by fiscal year.

Wastewater							
	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>FY20/21</u>	<u>Total</u>	<u>%</u>
<b>Wastewater Utility</b>	\$650,970	\$410,500	\$582,750	\$522,750	\$32,750	\$2,199,720	97%
<b>Wastewater Impact Fee</b>	\$37,800	\$16,500	\$5,250	\$5,250	\$5,250	\$70,050	3%
<b>Bonds</b>	\$0	\$0	\$0	\$0	\$0	\$0	0%
<b>Total</b>	\$688,770	\$427,000	\$588,000	\$528,000	\$38,000	\$2,269,770	100%

Wastewater improvement projects programmed in the Capital Improvement Plan, 2016-2021 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2016/17 through Fiscal Year 2020/21, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

## WASTEWATER

PROJECT NUMBER	PROJECT NAME	FY 16/17 BUDGET	ESTIMATED EXPENDITURES 2016-2021	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
S-09	Recycled Water (Tertiary Treatment)	\$0	\$0		TBD	Project is unfunded at this time
S-16	Misc. Maintenance Projects	\$35,000	\$175,000	\$210,000	\$0	
S-47	Regulatory Compliance Permit Renewal	\$0	\$0			Complete
S-50	Algae Removal Device	\$0	\$0	\$0	\$0	Combined with S-52
S-52	WWTRP Upgrades Phase 1	\$232,108	\$1,382,108	\$1,442,108	\$0	
S-53	Reclamation Field Improvements	\$142,000	\$142,000	\$142,000	\$0	
S-59	Split Pond 3	\$0	\$0	\$0	\$0	Combined with S-52
S-61	Pond 2 & 3 Levee	\$60,000	\$120,000	\$120,000	\$0	
S-62	Automation for Disinfection and Dechlorination	\$0	\$144,000	\$157,000	\$0	
S-64	Oak Avenue Sewer Line Replacement	\$0	\$0		TBD	Project is unfunded at this time
S-65	Improve Solids Management Ponds	\$0	\$0	\$0	\$0	Combined with S-52
S-66	New Well	\$65,000	\$65,000	\$65,000	\$0	
S-67	Sludge Removal	\$75,000	\$150,000	\$150,000	\$0	
S-68	Charter Oak Sewer Repair	\$77,962	\$77,962	\$467,049	\$0	
S-69	Install and Operate Temp WWTRP Office	\$5,000	\$17,000	\$17,000	\$0	
<b>Total</b>		<b>\$692,070</b>	<b>\$2,273,070</b>	<b>\$2,770,157</b>		

## WATER

The Water category includes projects that support delivery of water throughout the city, upgrading infrastructure and improvements to existing water system. The City complies with all applicable local, state and federal regulations related to water. Funding for Water is comprised of Water rates (paid by consumers), bonds, grants, and development impact fees. Water is an enterprise fund and all improvements are planned to be constructed without General Fund contributions. The table below summarizes the funding source for Water projects by fiscal year.

Water							
	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>FY20/21</u>	<u>Total</u>	<u>%</u>
Water Utility	\$843,186	\$3,389,274	\$641,667	\$0	\$0	\$4,874,126	37%
Water Bond	\$2,109,908	\$747,808	\$120,100	\$0	\$0	\$2,977,816	23%
Water Impact Fee	\$141,900	\$1,300,267	\$316,667	\$0	\$0	\$1,758,833	13%
Unfunded	\$847,888	\$847,887	\$0	\$0	\$0	\$1,695,775	13%
Grants	\$893,938	\$893,938	\$0	\$0	\$0	\$1,787,876	14%
<b>Total</b>	\$4,836,820	\$7,179,173	\$1,078,433	\$0	\$0	\$13,094,426	100%
					\$0		

Water improvement projects programmed in the Capital Improvement Plan, 2016-2021 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2016/17 through Fiscal Year 2020/21, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

# WATER

PROJECT NUMBER	PROJECT NAME	FY 16/17 BUDGET	ESTIMATED EXPENDITURES 2016-2021	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
W-26	York Creek Upper Dam Removal/Mitigation	\$3,737,134	\$6,177,117	\$6,500,000	\$1,695,775	
W-27	Meadowood Tank Upgrade		\$245,100	\$398,948		
W-35	Bell Canyon Reservoir Improvements			TBD	TBD	Unfunded
W-70	Recycled Water Mains			TBD	TBD	Unfunded
W-80	Dwyer Road Booster		\$842,524	\$2,590,000		
W-82	Water Rights and Permitting					Moved to operating budget
W-84	Bell Canyon Intake Mid-Valve Repair	\$44,888	\$44,888	\$287,325		
W-85	Bell Valve House Valve Replacement			\$575,135	\$526,105	Unfunded
W-86	Holmes Tank Upgrade	\$58,000	\$1,383,000	\$1,428,000		
W-90	High Service Pump					Moved to operating budget
W-91	Bell Canyon Creek Inflow Measurement	\$85,000	\$750,000	\$872,645		
W-93	Sludge Handling Program					Moved to operating budget
W-94	Replace Telemetry at LSWTP				TBD	Unfunded
W-95	Influent Valve Actuator				TBD	Unfunded
W-96	Lower Reservoir Water Treatment				TBD	Unfunded
W-97	Raw Water Metering Station				TBD	Unfunded
W-100	VFD Controllers					Moved to operating budget
W-101	Tank 2 Rehabilitation	\$60,000	\$750,000	\$750,000		
W-102	Well Filter Rehabilitation	\$11,103	\$11,103	\$265,541		
W-105	Sludge Handling					Complete
W-106	Pump Station Upgrades		\$200,000	\$200,000		
W-107	Replace 12" Transmission Main				TBD	Unfunded
W-108	Lower York Creek Dam Rehab	\$190,695	\$190,695	\$500,695	\$290,000	
W-109	Bell Canyon Intake Tower Replacement	\$650,000	\$2,000,000	\$2,000,000		
W-110	Upgrade Rutherford Pump Station		\$500,000	\$500,000		
<b>Total</b>		<b>\$4,836,820</b>	<b>\$13,094,427</b>	<b>\$16,868,289</b>		

# APPENDIX A – COMPLETED PROJECTS

## CIVIC

- C-20 Financial Software
- C-26 Wappo Park Restrooms & Path
- C-44 Library Capital Repairs (C-30)
- C-44 Baldwin Bridge (C-41)
- C-50 Skate Park
- C-51 Bocce Court
- C-61 Impact Fee Study
- C-63 R.I.M.S. Extension MDC
- C-65 Meily Park
- C-66 Fire Truck
- C-67 Lyman Park
- C-68 Wappo Park-Pope Street Bike Trail
- C-70 Police Radio Repeaters
- C-72 Financial Software Upgrade
- C-73 McCorkle Avenue
- C-74 McCullagh Park
- C-76 Parks Equipment
- C-77 Police Equipment
- C-78 Admin Equipment
- C-81 FD Vehicle Replacement

## STREETS

R-04	Pope Street Bridge Re-Alignment
R-19	Channelization
R-32	Replacement Main Street Electroliers
R-39	Ten-Wheeler Used Dump Truck
R-40	Radar Speed Check Display Sign
R-41	Micro-Surfacing
R-42	Slurry Seal Rehabilitation
R-44	Solar Message Board
R-46	Citywide Street Sign Replacement
R-47	Annual Cracked Seal Maintenance
R-48	Annual Slurry Seal Maintenance
R-69	Pope-Starr Lighted Cross Walk
R-70	Sentinel Street Sweeper Overhaul
R-71	SH Street Repair/Rehab Project 2013
R-72	Streets Equipment Replacement

\*Projects R-49 through R-68 were identified as individual projects in the previous CIP. As funding becomes available these projects will be grouped as one capital project.

## WASTEWATER

S-06	Sulphur Springs Sewer Extension
S-28	Chlorine Analyzer/SCADA System
S-30	Pond 2 Walkway
S-33	Rock Slope Protection & Levee Repair
S-37	Charter Oak (SS & FM Construction)
S-38	Main Street Sewer Rehabilitation
S-41	Brush Aerators
S-43	WWTP Diffuser Permits
S-46	Front End Loader
S-49	Crinella Pump Station
S-51	Rehabilitation - Pond 1A
S-54	Security Gate
S-55	Shop HVAC
S-56	Radio Repeater/Infrastructure
S-57	Oak Ave Infrastructure
S-58	Chlorine Pump
S-60	Sealing of Pond 1A
S-63	Sewer Equipment Replacement
S57-01	Collections Vehicle Replacement Program
S57-02	Treatment Vehicle Replacement

## WATER

W-01	Bale Slough (Rutherford W-28)
W-02	Tank 2 - PAX Mixer
W-08	Pratt Avenue Transmission Bridge
W-12	Community Drive
W-13	Howell Mountain Road
W-28	Rutherford
W-31	Water Treatment Plant Upgrades
W-37	Corp Yard Improvements
W-38	Machinery & Equipment
W-42	SCADA
W-57	WTP Worker Housing
W-62	Water Valve Replacement
W-67	Charter Oak Water Main Replacement
W-69	Stonebridge Well Upgrades
W-83	Tank 1A Design/Construction
W-88	Surge Protection at LSWTP & SBW
W-89	Fixed Gas Chlorine Analyzer
W-98	Toilet Retrofit Program
W-99	Radio Repeater/Infrastructure
W76-01	Distribution Vehicle Replacement Program
W76-02	Treatment Vehicle Replacement Program
W-103	Stonebridge Well Roof
W-104	412 Crystal Springs Road Roof

# APPENDIX B – PROJECT DETAILS

C-09: SIGNORELLI BARN

**Project Name:** Signorelli Barn  
**Project Number:** C09  
**Project Description:** Restore/rehabilitate barn

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund	49,846							
Impact Fee (11.6%)	0							
<b>Total</b>	<b>49,846</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	49,846							
Environmental		0						0
Land/ROW Acquisition								0
Construction Engineering			0	0				0
Construction Contract			0	0				0
Other CIP Costs								0
<b>Total</b>	<b>49,846</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	TBD	TBD

C-19: MISCELLANEOUS BUILDING REPAIRS

**Project Name:** Miscellaneous Building Repairs  
**Project Number:** C19  
**Project Description:** Miscellaneous Building Repairs

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund	44,858	20,000	20,000	20,000	20,000	20,000		144,858
<b>Total</b>	<b>44,858</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	0	<b>144,858</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	0	0						0
Construction Contract	0	20,000	20,000	20,000	20,000	20,000	0	100,000
Other CIP Costs	44,858							44,858
<b>Total</b>	<b>44,858</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>0</b>	<b>144,858</b>

## C-46: SOFTBALL LIGHTS

**Project Name:** Softball Lights  
**Project Number:** C46  
**Project Description:** Softball Lights

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund	0	20,000						20,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	0	0						0
Construction Contract	0	20,000	0	0	0	0	0	20,000
Other CIP Costs	0							0
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,000</b>

## C-75 CITY HALL/POLICE FACILITY

**Project Name:** City Hal/Police Facility  
**Project Number:** C75  
**Project Description:** Remodel police facility

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund	0							0
Water Utility								0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TBD</b>	<b>TBD</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	0	0						0
Construction Contract	0	0	0	0	0	0		0
Other CIP Costs	0							0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TBD</b>	<b>TBD</b>

C-82: DOWNTOWN RESTROOMS

**Project Name:** Downtown Restrooms  
**Project Number:** C82  
**Project Description:** Construct restrooms downtown

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund	5,000	291,000						296,000
<b>Total</b>	<b>5,000</b>	<b>291,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>296,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	5,000	48,650						53,650
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		23,000		0				23,000
Construction Contract		219,350		0				219,350
Other CIP Costs								0
<b>Total</b>	<b>5,000</b>	<b>291,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>296,000</b>

R-05: MAIN STREET AT GRAYSON SIGNALIZATION

**Project Name:** Main Street at Grayson Traffic Signal  
**Project Number:** R05  
**Project Description:** Install 3-way traffic signal at Main Street and Grayson

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund		0						0
Impact Fee (100%)	138,340	8,500						146,840
State Grants - STIP								0
<b>Total</b>	<b>138,340</b>	<b>8,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>146,840</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	138,340							138,340
Environmental		8,500						8,500
Land/ROW Acquisition								0
Construction Engineering			0	0				0
Construction Contract			0	0				0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>138,340</b>	<b>8,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>146,840</b>

R-15: ACCESS RAMPS UPGRADES

**Project Name:** Access Ramp Upgrades  
**Project Number:** R15  
**Project Description:** Annual installation and replacement of curb ramps to meet accessibility requirements

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Gas Tax Fund		20,000	20,000	20,000	20,000	20,000		100,000
Measure					25,000	25,000		50,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>45,000</b>	<b>45,000</b>	<b>0</b>	<b>150,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		20,000	20,000	20,000	45,000	45,000		150,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>45,000</b>	<b>45,000</b>	<b>0</b>	<b>150,000</b>

### R-29: CURB, GUTTER AND SIDEWALK REPAIR

**Project Name:** Curb, Gutter, Sidewalk Repair  
**Project Number:** R29  
**Project Description:** Annual installation and replacement of damaged curb, gutter, and sidewalk

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Gas Tax Fund		20,000	20,000	20,000	20,000	20,000	0	100,000
Measure					75,000	75,000		150,000
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>95,000</b>	<b>95,000</b>	<b>0</b>	<b>250,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		20,000	20,000	20,000	95,000	95,000		250,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>95,000</b>	<b>95,000</b>	<b>0</b>	<b>250,000</b>

### R-30: POPE STREET BIKE LANES

**Project Name:** Pope Street Bike Lanes  
**Project Number:** R30  
**Project Description:** Install bike lanes on Pope Street

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY19/20	Future Years	Total
Gas Tax Fund		3,000						3,000
Grant - TFCA	10,000	30,000						40,000
<b>Total</b>	<b>10,000</b>	<b>33,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>43,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY19/20	Future Years	Total
Preliminary Engineering	5,000	3,000						8,000
Environmental	5,000							5,000
Land/ROW Acquisition								0
Construction Engineering		4,500						4,500
Construction Contract		25,500						25,500
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>10,000</b>	<b>33,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>43,000</b>

## R-38 DOWNTOWN RENAISSANCE

**Project Name:** Downtown Renaissance  
**Project Number:** R38  
**Project Description:** Improve pedestrian access downtown

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Unfunded							TBD	TBD
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								TBD
Environmental								TBD
Land/ROW Acquisition								TBD
Construction Engineering								TBD
Construction Contract								TBD
Other CIP Costs								TBD
Other - TBD								TBD
<b>Total</b>	0	0	0	0	0	0	0	TBD

## R-73: HUNT AVE & RLS BIKE/PED IMPROVEMENTS

**Project Name:** Hunt Ave & RLS Bike and Pedestrian Improvements  
**Project Number:** R73  
**Project Description:** Construct sidewalk in gaps along Hunt Ave, trail connection to Adams St, and various sidewalks near RLS Middle School

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Unfunded							400,000	400,000
<b>Total</b>	0	0	0	0	0	0	0	0

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering							60,000	60,000
Environmental							10,000	10,000
Land/ROW Acquisition								0
Construction Engineering						0	40,000	40,000
Construction Contract						0	290,000	290,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	0	0	0	0	0	400,000	400,000

## R-74: 2015 PAVEMENT REHABILITATION

**Project Name:** 2015 Pavement Rehabilitation**Project Number:** R74**Project Description:** 2015 Slurry Seal Program**Funding Sources:**

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund		0			125,000	125,000		250,000
Gas Tax Fund	19,830	264,665	250,000	85,000	85,000	85,000		789,495
Measure					500,000	500,000		1,000,000
<b>Total</b>	<b>19,830</b>	<b>264,665</b>	<b>250,000</b>	<b>85,000</b>	<b>710,000</b>	<b>710,000</b>		<b>2,039,495</b>

**Project Cost Estimate:**

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	16,830		5,000	30,000	30,000	30,000		111,830
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	3,000	28,450	25,000	8,500	71,000	71,000		206,950
Construction Contract		236,215	220,000	46,500	609,000	609,000		1,720,715
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>19,830</b>	<b>264,665</b>	<b>250,000</b>	<b>85,000</b>	<b>710,000</b>	<b>710,000</b>		<b>2,039,495</b>

## R-76: MITCHELL STREET SIDEWALK

**Project Name:** Mitchell Street Sidewalk**Project Number:** R76**Project Description:** Construct sidewalk on north side of Mitchell Drive between Oak Avenue and St James Drive**Funding Sources:**

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Gas Tax Fund	18,722							18,722
Grant - TDA-3	97,278	10,000						107,278
<b>Total</b>	<b>116,000</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126,000</b>

**Project Cost Estimate:**

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	14,790	0						14,790
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	10,700							10,700
Construction Contract	90,510	10,000						100,510
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>116,000</b>	<b>10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126,000</b>

R-77: RAILROAD AVE CURB RAMP

**Project Name:** Railroad Avenue Curb Ramp Upgrade  
**Project Number:** R77  
**Project Description:** Remove and construct 6 existing non-compliant ADA curb ramps on Railroad Avenue from Fulton Lane to Hunt Avenue

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Gas Tax Fund		10,000						10,000
Grant - TDA-3		51,500						51,500
<b>Total</b>	0	61,500	0	0	0	0	0	61,500

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering		8,000						8,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		6,150						6,150
Construction Contract		47,350						47,350
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	61,500	0	0	0	0	0	61,500

R-78: 2016 PAVEMENT OVERLAY

**Project Name:** 2016 Overlay  
**Project Number:** R78  
**Project Description:** Overlay Charter Oak Avenue and Allison Avenue

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
General Fund		0						0
Gas Tax Fund	19,830	384,000						403,830
Measure								0
<b>Total</b>	19,830	384,000						403,830

*Project Cost Estimate:*

Elements	Prior Years	FY16/17					Future Years	Total
Preliminary Engineering	16,830	18,000						34,830
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	3,000	36,000						39,000
Construction Contract		330,000						330,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	19,830	384,000	0	0	0	0		403,830

S-09: RECYCLED WATER (TERTIARY TREATMENT)

**Project Name:** Recycled Water (Tertiary Treatment)  
**Project Number:** S09  
**Project Description:** Create tertiary treatment at the waste water treatment plant

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Unfunded							TBD	TBD
Total	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								TBD
Environmental								TBD
Land/ROW Acquisition								TBD
Construction Engineering								TBD
Construction Contract								TBD
Other CIP Costs								TBD
Other - TBD								TBD
Total	0	0	0	0	0	0	0	TBD

S-16: MISCELLANEOUS MAINTENANCE PROJECTS

**Project Name:** Misc. Maintenance Projects  
**Project Number:** S-16  
**Project Description:** Various Annual Maintenance Projects

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility	29,750	29,750	29,750	29,750	29,750	29,750		178,500
Wastewater Impact Fee (15%)	5,250	5,250	5,250	5,250	5,250	5,250		31,500
Total	35,000	35,000	35,000	35,000	35,000	35,000	0	210,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	35,000	5,250	5,250	5,250	5,250	5,250		61,250
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		29,750	29,750	29,750	29,750	29,750		148,750
Other CIP Costs								0
Other - TBD								0
Total	35,000	35,000	35,000	35,000	35,000	35,000	0	210,000

## WASTEWATER PROJECTS DETAIL

### S-52: WASTEWATER TREATMENT & RECLAMATION PLANT UPGRADES PHASE 1

**Project Name:** Wastewater Treatment & Reclamation Plant Upgrades Phase 1  
**Project Number:** S-52  
**Project Description:** Feasibility study, work plan, and Phase 1 Improvements as required by CDO Regional Board Order R2-2016-0004 (WFE Improvement Number 1a)

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility	60,000	232,108	170,000	490,000	490,000			1,442,108
<b>Total</b>	<b>60,000</b>	<b>232,108</b>	<b>170,000</b>	<b>490,000</b>	<b>490,000</b>	<b>0</b>	<b>0</b>	<b>1,442,108</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	60,000	232,108	130,000					422,108
Environmental			40,000					40,000
Land/ROW Acquisition								0
Construction Engineering				40,000	40,000			80,000
Construction Contract				450,000	450,000			900,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>60,000</b>	<b>232,108</b>	<b>170,000</b>	<b>490,000</b>	<b>490,000</b>	<b>0</b>	<b>0</b>	<b>1,442,108</b>

### S-53: RECLAMATION FIELD IMPROVEMENTS

**Project Name:** Reclamation fields improvement  
**Project Number:** S-53  
**Project Description:** Improve irrigation facilities in reclamation field

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility		120,700						120,700
Wastewater Impact Fee (15%)		21,300						21,300
<b>Total</b>	<b>0</b>	<b>142,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>142,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering		21,000						21,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		11,000						11,000
Construction Contract		110,000						110,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>142,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>142,000</b>

S-61: POND 2 & 3 LEVEE REPAIR

**Project Name:** Pond 2 & 3 Levee Repair  
**Project Number:** S-61  
**Project Description:** Repair levees between ponds and install rock slope protection

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility		60,000		60,000				120,000
<b>Total</b>	0	60,000	0	60,000	0	0	0	120,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering		9,000		9,000				18,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		6,000		6,000				12,000
Construction Contract		45,000		45,000				90,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	60,000	0	60,000	0	0	0	120,000

S-62: AUTOMATION FOR DISINFECTION

**Project Name:** Automation for Disinfection and Dechlorination  
**Project Number:** S-62  
**Project Description:** Automate disinfection and dechlorination facilities per WFE Improvement Number 2

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility	13,000		144,000					157,000
<b>Total</b>	13,000	0	144,000	0	0	0	0	157,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	6,000		16,500					22,500
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			12,500					12,500
Construction Contract	7,000		115,000					122,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	13,000	0	144,000	0	0	0	0	157,000

S-64: OAK AVENUE SEWER LINE REPLACEMENT

**Project Name:** Oak Avenue Sewer Line Replacement  
**Project Number:** S-64  
**Project Description:** Reconstruct or rehabilitate sewer line in Oak Avenue

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility								0
Wastewater Impact Fee (15%)								0
<b>Total</b>	0	0	0	0	0	0	TBD	0

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	0	0	0	0	0	TBD	0

S-66: NEW WELL

**Project Name:** New Well  
**Project Number:** S-66  
**Project Description:** Install new well at wastewater treatment and reclamation plant

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility		65,000						65,000
<b>Total</b>	0	65,000	0	0	0	0	0	65,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering		10,000						10,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		5,000						5,000
Construction Contract		50,000						50,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	65,000	0	0	0	0	0	65,000

S-67: SLUDGE REMOVAL

**Project Name:** Sludge Removal  
**Project Number:** S-67  
**Project Description:** Remove accumulated sludge from Ponds 1B and 2

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility		63,750	63,750					127,500
Wastewater Impact Fee (15%)		11,250	11,250					22,500
<b>Total</b>	0	75,000	75,000	0	0	0	0	150,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering		20,000						20,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		5,000	10,000					15,000
Construction Contract		50,000	65,000					115,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	75,000	75,000	0	0	0	0	150,000

S-68: CHARTER OAK SEWER REPAIR

**Project Name:** Charter Oak Sewer Repair  
**Project Number:** S-68  
**Project Description:** Repair failed sewer line at Charter Oak and Highway 29

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility	352,633	77,962						430,595
Water Utility	36,454							36,454
<b>Total</b>	389,087	77,962	0	0	0	0	0	467,049

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	49,783	22,962						72,745
Construction Contract	264,642	55,000						319,642
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	314,425	77,962	0	0	0	0	0	392,387

## WASTEWATER PROJECTS DETAIL

### S-69: INSTALL AND OPERATE TEMP WWTP OFFICE

**Project Name:** Install & Operate Temporary WWTRP Office Building

**Project Number:** S-69

**Project Description:** Install & Operate Temporary WWTRP Office Building

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Wastewater Utility		5,000	3,000	3,000	3,000	3,000		17,000
<b>Total</b>	0	5,000	3,000	3,000	3,000	3,000	0	17,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		5,000	3,000	3,000	3,000	3,000		17,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	5,000	3,000	3,000	3,000	3,000	0	17,000

### W-26: YORK CREEK UPPER DAM REMOVAL

**Project Name:** Upper York Creek Dam Removal  
**Project Number:** W-26  
**Project Description:** Remove Upper York Creek Dam and restore creek habitat

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Bond	322,883	1,995,308	698,158					3,016,349
Unfunded		847,888	847,887					1,695,775
EPA Grant SFBWQIF		493,938	493,938					987,876
Proposition 84		400,000	400,000					800,000
<b>Total</b>	<b>322,883</b>	<b>3,737,134</b>	<b>2,439,983</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,500,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	322,883	262,123						585,006
Environmental		262,123						262,123
Land/ROW Acquisition								0
Construction Engineering		125,000	125,718					250,718
Construction Contract		3,087,888	2,314,265					5,402,153
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>322,883</b>	<b>3,737,134</b>	<b>2,439,983</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,500,000</b>

### W-27: MEADOWOOD & HOLMES TANK UPGRADES

**Project Name:** Meadowood Tank Upgrade  
**Project Number:** W-27  
**Project Description:** Replace and upgrade Meadowood Tanks and associated systems

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	148,948	0						148,948
Water Impact Fee (50%)				125,000				125,000
Water Bond	4,900			120,100				125,000
<b>Total</b>	<b>153,848</b>	<b>0</b>	<b>0</b>	<b>245,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>398,948</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	153,848			17,100				170,948
Environmental				3,000				3,000
Land/ROW Acquisition								0
Construction Engineering				20,000				20,000
Construction Contract				205,000				205,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>153,848</b>	<b>0</b>	<b>0</b>	<b>245,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>398,948</b>

W-35: BELL CANYON RESERVOIR IMPROVEMENTS

**Project Name:** Bell Canyon Reservoir Improvements  
**Project Number:** W-35  
**Project Description:** Dredging to restore storage capacity lost by sediment accumulation

**Financial Impact**

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility								
Total	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
Total	0	0	0	0	0	0	TBD	TBD

W-70: RECYCLED WATER MAINS

**Project Name:** Recycled Water Mains  
**Project Number:** W-70  
**Project Description:** Install recycled water mains in the City

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility							TBD	TBD
Total	0	0	0	0	0	0	0	0

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD							TBD	TBD
Total	0	0	0	0	0	0	0	0

### W-80: DWYER ROAD BOOSTER (PUMP STATION)

**Project Name:** Dwyer Road Pump Station  
**Project Number:** W-80  
**Project Description:** Contribute a fair share contribution to the City of Napa for a pump station to deliver water to St Helena and Calistoga. Project will improve system reliability and increase pressure in the southern end of the system.  
**Project Status:** Project is in preliminary engineering phase. A grant/loan application has been submitted to the State Revolving Fund. City share for engineering phase is \$110,000

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility			222,524	191,667				414,190
Water Impact Fee (50%)			236,667	191,667				428,333
Water Bond	34,143							34,143
<b>Total</b>	<b>34,143</b>	<b>0</b>	<b>459,190</b>	<b>383,333</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>876,667</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	102,429		187,571					290,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			150,000	150,000				300,000
Construction Contract			1,000,000	1,000,000				2,000,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>102,429</b>	<b>0</b>	<b>1,337,571</b>	<b>1,150,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,590,000</b>

### W-84: BELL CANYON INTAKE MID-VALVE REPAIR

**Project Name:** Bell Canyon Intake Tower Repair  
**Project Number:** W-84  
**Project Description:** Replace and repair mid-valve on the intake tower

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	168,021	44,888						212,909
Water Impact Fee (15%)								0
Water Bond	74,416							74,416
<b>Total</b>	<b>242,437</b>	<b>44,888</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>287,325</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	134,079							134,079
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	25,000							25,000
Construction Contract	83,358	44,888						128,246
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>242,437</b>	<b>14,387</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>287,325</b>

### W-85: BELL VALVE HOUSE IMPROVEMENTS

**Project Name:** Bell Canyon Valve House Improvements  
**Project Number:** W-85  
**Project Description:** Improve valve house at Bell Canyon Reservoir

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	49,030						447,189	496,219
Water Impact Fee (15%)							78,916	78,916
<b>Total</b>	<b>49,030</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>526,105</b>	<b>575,135</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	49,030						50,000	99,030
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							50,000	50,000
Construction Contract							426,105	426,105
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>49,030</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>526,105</b>	<b>575,135</b>

### W-86: HOLMES TANK UPGRADE

**Project Name:** Holmes Tank Upgrade  
**Project Number:** W-86  
**Project Description:** Replace and upgrade Holmes Tank and associated systems

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	22,500	29,000	662,500					714,000
Water Impact Fee (50%)	22,500	29,000	662,500					714,000
<b>Total</b>	<b>45,000</b>	<b>58,000</b>	<b>1,325,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,428,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	45,000	53,000						98,000
Environmental		5,000						5,000
Land/ROW Acquisition								0
Construction Engineering			125,000					125,000
Construction Contract			1,200,000					1,200,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>45,000</b>	<b>58,000</b>	<b>1,325,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,428,000</b>

### W-91: BELL CREEK INFLOW MEASUREMENT

**Project Name:** Bell Canyon Creek Inflow Measurement  
**Project Number:** W-91  
**Project Description:** Install stilling basin and inflow measuring devices

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	22,645		550,250					572,895
Water Impact Fee (15%)		12,750	99,750					112,500
Water Bonds	100,000	72,250	15,000					187,250
<b>Total</b>	<b>122,645</b>	<b>85,000</b>	<b>665,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>872,645</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	122,645	65,000						187,645
Environmental		20,000						20,000
Land/ROW Acquisition								0
Construction Engineering			60,000					60,000
Construction Contract			605,000					605,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>122,645</b>	<b>85,000</b>	<b>665,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>872,645</b>

### W-94: REPLACE TELEMETRY AT LSWTP

**Project Name:** Replace Telemetry At LSWTP  
**Project Number:** W-94  
**Project Description:**

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility								
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TBD</b>	<b>TBD</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TBD</b>	<b>TBD</b>

### W-95: INFLUENT VALVE ACTUATOR

**Project Name:** Influent Valve Actuator

**Project Number:** W-95

**Project Description:**

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility								
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

### W-96: LOWER RESERVOIR WATER TREATMENT

**Project Name:** Lower Reservoir Water Treatment

**Project Number:** W-96

**Project Description:**

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility								
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

**W-97: RAW WATER METERING STATION**

**Project Name:** Raw Water Metering Station

**Project Number:** W-97

**Project Description:**

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility								
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

**W-101: TANK 2 REHABILITATION**

**Project Name:** Tank 2 Rehabilitation

**Project Number:** W-101

**Project Description:** Rehabilitate Tank 2

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility		51,000	586,000					637,000
Water Impact Fee (15%)		9,000	104,000					113,000
<b>Total</b>	0	60,000	690,000	0	0	0	0	750,000

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering		60,000						60,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			69,000					69,000
Construction Contract			621,000					621,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	60,000	690,000	0	0	0	0	750,000

### W-102: WELL FILTER REHABILITATION

**Project Name:** Well Filter Rehabilitation  
**Project Number:** W-102  
**Project Description:** Rehabilitate well filters

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	254,438	11,103						265,541
<b>Total</b>	<b>254,438</b>	<b>11,103</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>265,541</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	30,183	0						30,183
Environmental		0						0
Land/ROW Acquisition								0
Construction Engineering	51,304	2,000	0					53,304
Construction Contract	172,951	9,103						182,054
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>254,438</b>	<b>11,103</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>265,541</b>

### W-106: PUMP STATION UPGRADES

**Project Name:** Pump Station Upgrades  
**Project Number:** W-106  
**Project Description:** Upgrade existing pump stations to provide backup power. This upgrade is required by the Department of Public Health

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility			200,000					200,000
<b>Total</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering			20,000					20,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			20,000					20,000
Construction Contract			160,000					160,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>

### W-107: REPLACE 12" TRANSMISSION MAIN

**Project Name:** Replace 12" Transmission Main  
**Project Number:** W-107  
**Project Description:** Replace 12" Water Transmission Main from Rutherford Pump Station to City of Napa

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility								
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	0	0	0	0	0	0	TBD	TBD

### W-108: LOWER YORK CREEK DAM REHAB

**Project Name:** Lower York Creek Dam Rehab  
**Project Number:** W-108  
**Project Description:** Rehab Lower York Creek Dam as required by Division of Dam Safety. Repair 12" diameter gate in the outlet tower, repair 24" diameter spillway gate, geotechnical investigation and stability analysis, seismic stability analysis of intake tower, and survey and rehab 12" dia low level outlet pipe

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility	20,000	190,695	0				290,000	500,695
<b>Total</b>	20,000	190,695	0	0	0	0	290,000	500,695

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering	20,000	145,695						165,695
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							20,000	20,000
Construction Contract		45,000					270,000	315,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	20,000	190,695	0	0	0	0	290,000	500,695

**W-109: BELL CANYON INTAKE TOWER REPLACEMENT**

**Project Name:** Bell Canyon Intake Tower Replacement

**Project Number:** W-109

**Project Description:** Replace intake tower

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY19/20	Future Years	Total
Water Utility		516,500	1,118,000					1,634,500
Water Impact Fee (15%)		91,150	197,350					288,500
Water Bond		42,350	34,650				0	77,000
<b>Total</b>	<b>0</b>	<b>650,000</b>	<b>1,350,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY19/20	Future Years	Total
Preliminary Engineering		200,000						200,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		50,000	150,000					200,000
Construction Contract		400,000	1,200,000					1,600,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>650,000</b>	<b>1,350,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,000,000</b>

**W-110: UPGRADE RUTHERFORD PUMP STATION**

**Project Name:** Upgrade Rutherford Pump Station

**Project Number:** W-110

**Project Description:** Upgrade electrical equipment and install permanent structure

*Funding Sources:*

Sources	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Water Utility			50,000	450,000				500,000
Water Impact Fee (15%)								0
Water Bond							0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>

*Project Cost Estimate:*

Elements	Prior Years	FY16/17	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Preliminary Engineering			50,000					50,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering				60,000				60,000
Construction Contract				390,000				390,000
Other CIP Costs								0
Other - TBD								0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>500,000</b>