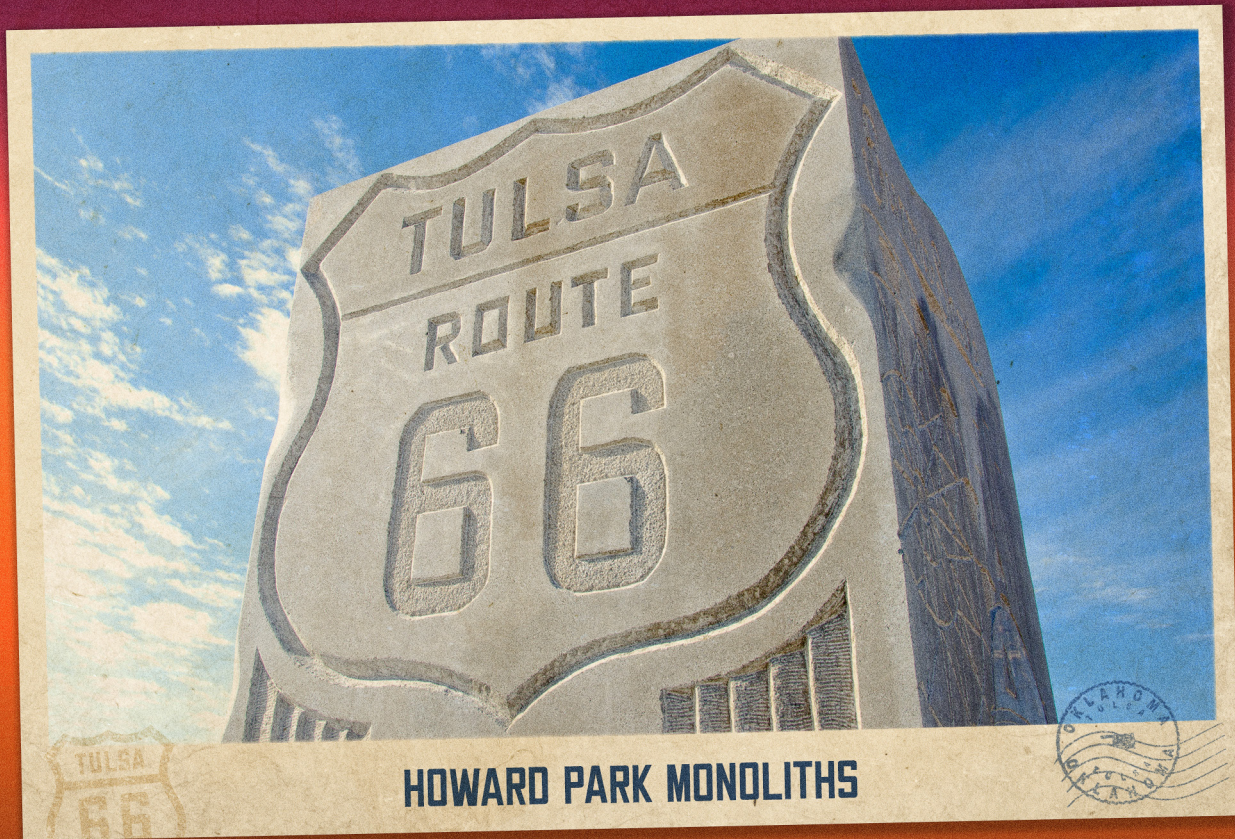


SECTION 8

CIP SCHEDULE



HOWARD PARK MONOLITHS

This section of the document summarizes the departments' capital needs and provides funding and scheduling recommendations.

The Capital Improvements Plan (CIP) ordinance adopted by the City Council includes the five-year schedule.



FISCAL YEARS 2027-2031 CAPITAL PLAN

In November 2013, the citizens of Tulsa approved \$355.0 million of General Obligation (GO) bonds for streets and bridges called Improve Our Tulsa (IoT). In November 2019, the program was extended and added \$427.0 million in additional GO bonds for streets and bridges called Improve Our Tulsa 2 (IoT II). In August 2023, the program was extended a second time adding an additional \$384.9 million in GO bonds for streets, bridges, parks, cultural, and recreational facilities called Improve Our Tulsa 3 (IoT III). To date, all the \$355.0 million has been issued from the IoT 1 program, \$278.2 million of the \$427.0 million has been issued from the IoT II program, and \$210.1 million of the \$384.9 million has been issued from the IoT III program. The remaining \$323.5 million will be issued in future years with the next series planned for issuance in FY2027. The Mayor and City Council share a commitment to improving the condition of our roadways and providing funds for critical services such as public safety, federal mandates, building code, and short-term capital needs. Goals identified in PlaniTulsa, the City's comprehensive plan, were used to prioritize the allocation of the authorized \$2.4 billion in the IoT 1, 2, and 3 programs. In April of 2016, City of Tulsa voters approved a temporary sales tax levy of slightly over 3/10ths of a cent for the purpose of funding large scale economic development projects. The tax went into effect in January 2017 and will be in place for 15 years. The tax will fund over \$510.6 million in major capital and economic development projects across the city. The commitment of these resources is likely to mean that any newly identified or unfunded capital improvement projects will not be funded until the conclusion of these programs. Information about these programs is contained in the FY27 Capital Budget - Funded Programs Status and Operating Impact (Section 6) of this document and includes a list of the proposed funding for FY27.

Historically, the City of Tulsa has had an aggressive capital improvements program. The Third Penny Sales Tax program, has financed almost \$2.4 billion in needed projects over the last thirty years. That amount has been augmented by \$2.0 billion of additional general obligation and revenue bond dollars and millions more from federal grants and loans. In November 2008, the City of Tulsa electorate approved a street improvement package totaling \$451.6 million. The program was comprised of \$285 million in general obligation bond proceeds and \$166.6 million in sales tax revenue which was derived from an extension of the existing third penny sales tax in addition to a 0.167% increase. The program funded 128 arterial and residential street projects across the City. The 2006 Sales Tax program, approved in May 2006, which provided \$465 million for capital projects throughout the City, is in the final stage of implementation. All the appropriations to fund these improvements are complete.

In alignment with industry best practice, the City of Tulsa is proactive in reviewing its capital needs both annually and in the strategic view of long-range goals and needs as identified in various master plans. These planning efforts have been undertaken both internally and with sister organizations involved in major capital programs in the region. The City's Finance Department reviews and maintains an inventory of master plans and recommendations that extend as far out as 50 years with over 835 projects totaling over \$9.9 billion. The re-authorization of the IoT program referenced above relies on these master plans as a basis for identifying the potential list of proposed projects. Section 7, Master Plan Priorities, provides a summary of each of the major master plans and highlights the goals for the physical improvements they govern. Funding recommendations covering these areas follow in Section 8, the 2027-2031 Capital Plan.

CAPITAL PLAN

FIVE-YEAR LEVEL OF RECOMMENDED FUNDING*
BY DEPARTMENT
Fiscal Years 2027 - 2031
(amount expressed in thousands)

Project Type	Constrained Requests	FY27-31 Recommended Funding	Inventory Percent Funding	Total Percent Funding
Police Department Projects	\$ -	\$ -	0%	0%
Fire Department Projects	37,488	-	0%	0%
Total Public Safety and Protection	\$ 37,488	\$ -	0%	0%
Park and Recreation Projects	12,870	-	0%	0%
Tulsa Zoo Projects	12,400	-	0%	0%
Gilcrease Museum Projects	-	-	0%	0%
Arvest Convention Center and BOK Center	24,150	-	0%	0%
Performing Arts Center	69,700	-	0%	0%
River Parks Projects	29,770	-	0%	0%
Total Cultural Development and Recreation	\$ 148,890	\$ -	0%	0%
Planning & Neighborhoods Department Projects	101,726	-	0%	0%
Economic Development Projects	21,875	-	0%	0%
Total Social and Economic Development	\$ 123,601	\$ -	0%	0%
Street and Expressway Projects	351,606	-	0%	0%
Water System Projects	1,069,465	399,481	37%	47%
Sanitary Sewer System Projects	945,223	359,224	38%	42%
Flood Control Projects	109,582	89,770	82%	11%
Metropolitan Tulsa Transit Authority (MetroLink) Projects	-	-	0%	0%
Total Public Works and Transportation	\$ 2,475,876	\$ 848,475	34%	100%
Information Technology Department	-	-	0%	0%
Facilities Maintenance Projects	61,701	-	0%	0%
Equipment Management Projects	-	-	0%	0%
Short Term and Contracted Capital Projects	85,671	-	0%	0%
Total Administrative and Support Services	\$ 147,372	\$ -	0%	0%
Total of All Capital Project Types	\$ 2,933,227	\$ 848,475	29%	100%

* Capital projects funded via Sales Tax and General Obligation Bond programs through FY2030.

CAPITAL PLAN

FY 2027 - 2031

FIVE-YEAR
RECOMMENDED CIP FUNDING
RENEWAL VS. GROWTH



Total \$848,475

CAPITAL PLAN

A SUMMARY OF THE CAPITAL BUDGET AND FIVE-YEAR CAPITAL PLAN*

The following is a summary of all proposed, but unfunded capital expenditures for the next five years. It does not include project allocations in previously approved capital programs. The amount shown does not include each department's funding from the approved 2017 Limited Purpose Sales Tax Program, 2023, 2020 and 2014 Sales Tax Extension (Improve Our Tulsa I, II, III), 2023, 2020 and 2014 General Obligation Bond Program (Improve Our Tulsa I, II and III), the 2008 Street Improvement Program, or the 2006 Sales Tax Extension. Information on the projects and appropriations for these programs is contained in Section 6.

PROGRAM/DEPARTMENT	Proposed 5-Year Funding
<u>PUBLIC SAFETY AND PROTECTION</u>	
Fire	\$ 37 million
The Fire Department's highest priority is the replacement of its apparatus, followed by the construction/expansion of around 10 Fire Stations and facilities.	
Total Public Safety and Protection	\$ 37 million
<u>CULTURAL DEVELOPMENT AND RECREATION</u>	
Parks and Recreation Department	\$ 13 million
The maintenance of the Park systems aging facilities is the Department's highest priority. Park system projects have been prioritized in the Park's Master Plan and funding has been allocated toward its implementation in previous capital programs.	
Tulsa Zoo	\$ 12 million
TMZI has identified capital projects with the highest priorities including replacement of various facility roofs and HVAC equipment across the zoo, followed by a new access road and employee parking lot.	
Gilcrease Museum	\$ 0 million
The continued maintenance and improvements of the supporting facilities around the newly constructed Gilcrease Museum have been identified as the highest priority projects.	
BOK Center and Arvest Convention Center	\$ 24 million
The continued maintenance and improvements of the BOK Center and Arvest Convention Center have been identified as the highest priority projects.	
Performing Arts Center	\$ 70 million
The Tulsa PAC capital improvements plan intends for the continued upgrades of the facilities aging infrastructure and improvements to ADA compliance with potential expansion in the future.	
River Parks Authority	\$ 30 million
The continued improvements of both west and east banks of the Arkansas river has been identified as the highest priority projects followed by the acquisition of the vacant concrete plant site.	
Total Cultural Development and Recreation	\$ 149 million
<u>SOCIAL AND ECONOMIC DEVELOPMENT</u>	
Planning and Neighborhoods Department Projects	\$ 102 million
As the City works to address homelessness at the intersection of housing and mental health, the City of Tulsa has released its Path to Home Strategy.	
Tulsa Authority for Economic Opportunity (TAEO) Economic Development	\$ 22 million
TAEO will continue to pursue various economic development efforts as identified in the City's various plans well as efforts such as the beautification of Route 66 and infrastructure to support the Peoria/Mohawk Business Park.	
Total Social and Economic Development	\$ 124 million

CAPITAL PLAN

PROGRAM/DEPARTMENT	Proposed 5-Year Funding
<u>PUBLIC WORKS AND INFRASTRUCTURE</u>	
Streets and Expressways One of the top priorities of the City continues to be arterial and residential street resurfacing. Funding to match ODOT eight-year plan improvements and improvements identified in the Bicycle and Pedestrian Master Plan currently underway are a high priority.	\$ 352 million
Water The City continues implementing the IMG Water System Study, which identified the most critical needs in this area, such as protecting the Spavinaw watershed from pollution and the maintenance of the existing distribution system.	\$ 1,069 million
Sanitary Sewer The City completed all required projects to meet the consent orders issued by State and Federal regulatory authorities to eliminate specific incidents of residential sewage overflows. Future Utility Revenue Bonds and Enterprise Fund resources will be dedicated to the completion of any future consent orders, as well as the upkeep of existing assets.	\$ 945 million
Flood Control The continued implementation of the Citywide Flood Control Plan is the highest priority. Floodplain acquisition, planning services for the Hazard Mitigation Program, and urgent small drainage improvements are identified as the highest priorities by the plan.	\$ 110 million
Metropolitan Tulsa Transit Authority (MetroLink) MTTA's highest priorities are the completion of the 11th Street Bus Rapid Transit (BRT), continued replacement of current fleet, and replacement of the Downtown Transit Center	\$ 0 million
Total Public Works and Transportation	\$ 2,476 million
<u>ADMINISTRATIVE AND SUPPORT SERVICES</u>	
Facilities Maintenance Projects The continued maintenance of all City-owned facilities has been identified as the highest priority by the plan.	\$ 62 million
Equipment Management Projects The continued maintenance and replacement of all City-owned equipment has been identified as the highest priority by the plan.	\$ 0 million
Short Term Capital Projects Projects in this category include the replacement of various existing capital equipment, such as department fleet, facility equipment, and minor facility purchases and repairs.	\$ 86 million
Total Administrative and Support Services	\$ 148 million
TOTAL PROPOSED FIVE-YEAR FUNDING PROGRAM	\$ 2,934 million

* Capital projects funded via Sales Tax and General Obligation Bond programs through FY2030.

CAPITAL PLAN

CITY OF TULSA

FISCAL YEARS 2027-2031 CAPITAL IMPROVEMENTS FUNDING SCHEDULE

SUMMARY OF HIGH PRIORITY FUNDING REQUESTS BY DEPARTMENT

Prepared by the Department of Finance in Collaboration with the Operating Departments

All Dollars in Thousands

Project Type	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
Police Department Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fire Department Projects	37,488	-	-	-	-	-	-
Total Public Safety and Protection	\$ 37,488	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Park and Recreation Department Projects	12,870	-	-	-	-	-	-
Tulsa Zoo Projects	12,400	-	-	-	-	-	-
Gilcrease Museum Projects	-	-	-	-	-	-	-
Arvest Convention Center and BOK Center Projects	24,150	-	-	-	-	-	-
Performing Arts Center Projects	69,700	-	-	-	-	-	-
River Parks Projects	29,770	-	-	-	-	-	-
Total Cultural Devel. and Recreation	\$ 148,890	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Planning & Neighborhoods Department Projects	101,726	-	-	-	-	-	-
Economic Development Projects	21,875	-	-	-	-	-	-
Total Social and Economic Development	\$ 123,601	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Street and Expressway Projects	351,606	-	-	-	-	-	-
Water System Projects	1,069,465	60,684	66,403	68,674	76,695	127,025	399,481
Sanitary Sewer System Projects	945,223	63,726	70,253	89,172	65,619	70,454	359,224
Flood Control Projects	109,582	17,470	17,500	19,700	17,600	17,500	89,770
Total Public Works and Transportation	\$ 2,475,876	\$ 141,880	\$ 154,156	\$ 177,546	\$ 159,914	\$ 214,979	\$ 848,475
Information Technology Projects	-	-	-	-	-	-	-
Facilities Maintenance Projects	61,701	-	-	-	-	-	-
Equipment Management Projects	-	-	-	-	-	-	-
Short Term and Contracted Capital Projects	85,671	-	-	-	-	-	-
Total Administrative and Support	\$ 147,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total of All Capital Project Types	\$ 2,933,227	\$ 141,880	\$ 154,156	\$ 177,546	\$ 159,914	\$ 214,979	\$ 848,475

Amounts shown do not reflect the value of the Capital Inventory. Dollars reflect the estimated cost of those projects needed in the next five years.

CAPITAL PLAN

CITY OF TULSA

FISCAL YEARS 2027-2031 CAPITAL IMPROVEMENTS FUNDING SCHEDULE
SUMMARY OF HIGH PRIORITY FUNDING REQUESTS BY DEPARTMENT
 Prepared by the Department of Finance in Collaboration with the Operating Departments
 All Dollars in Thousands

Funding Source	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
Future Bond Program	\$ 379,616	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Future Sales Tax	432,341	-	-	-	-	-	-
Water Enterprise	549,531	22,205	23,625	27,067	29,071	34,532	136,500
Water Revenue Bond	519,934	38,479	42,778	41,607	47,624	92,493	262,981
Sewer Enterprise	730,519	48,108	42,198	51,392	47,755	50,452	239,905
State Sewer Loan (SRF)	-	-	-	-	-	-	-
State Sewer Loan (FAP)	-	-	-	-	-	-	-
Sewer Revenue Bond	218,140	15,618	28,055	37,780	17,864	20,002	119,319
Storm Sewer Enterprise	69,582	11,470	9,000	8,900	9,600	10,800	49,770
Storm Sewer Revenue Bond	40,000	6,000	8,500	10,800	8,000	6,700	40,000
Total Funding by Source	\$ 2,939,663	\$ 141,880	\$ 154,156	\$ 177,546	\$ 159,914	\$ 214,979	\$ 848,475

** Other Funding Sources: Existing Sales Tax Programs; Golf Course Fees; Tax Increment Financing; Equipment Management Fund; Special Purpose Revenue Bonds; and Private Matching Funding.*

Amounts shown do not reflect the value of the Capital Inventory. Dollars reflect the estimated cost of those projects needed in the next five years.

CAPITAL PLAN

CONSTRAINED VERSUS UNCONSTRAINED INVENTORY BY DEPARTMENT

Fiscal years 2027-2031
(amount expressed in thousands)

Project Type	Constrained Inventory	Unconstrained Inventory	Total
Police Department Projects	\$ -	\$ 119,601	\$ 119,601
Fire Department Projects	37,488	255,200	292,688
Total Public Safety and Protection	\$ 37,488	\$ 374,801	\$ 412,289
Park and Recreation Projects	12,870	157,983	170,853
Tulsa Zoo Projects	12,400	200,420	212,820
Gilcrease Museum Projects	-	55,419	55,419
Arvest Convention Center and BOK Center Projects	24,150	123,678	147,828
Performing Arts Center Projects	69,700	273,936	343,636
River Parks Projects	29,770	109,047	138,817
Total Cultural Development and Recreation	\$ 148,890	\$ 920,483	\$ 1,069,373
Planning & Neighborhoods Department Projects	101,726	-	101,726
Economic Development Projects	21,875	35,508	57,383
Total Social and Economic Development	\$ 123,601	\$ 35,508	\$ 159,109
Street and Expressway Projects	351,606	6,858,318	7,209,924
Water System Projects	1,069,465	522,335	1,591,800
Sanitary Sewer System Projects	945,223	761,574	1,706,797
Flood Control Projects	109,582	70,679	180,261
Metropolitan Tulsa Transit Authority (MetroLink) Projects	-	125,969	125,969
Total Public Works and Transportation	\$ 2,475,876	\$ 8,338,875	\$ 10,814,751
Information Technology Projects	-	46,407	46,407
Facilities Maintenance Projects	61,701	220,948	282,649
Short Term and Contracted Capital Projects	85,671	-	85,671
Total Administrative and Support Services	\$ 147,372	\$ 267,355	\$ 414,727
Total of All Capital Project Types	\$ 2,933,227	\$ 9,937,022	\$ 12,870,249

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CITY OF TULSA

FISCAL YEARS 2027-2031 CAPITAL IMPROVEMENTS FUNDING SCHEDULE

Prepared by the Department of Finance in Collaboration with the Operating Departments

All Dollars In Thousands

Priority Indicated Represents Department's Rating

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
PUBLIC SAFETY AND PROTECTION								
Fire Department								
1	Future Capital Projects	37,488	-	-	-	-	-	-
	Total Fire Department Projects	37,488	-	-	-	-	-	-
TOTAL PUBLIC SAFETY AND PROTECTION PROJECTS								
		37,488	-	-	-	-	-	-
CULTURAL DEVELOPMENT AND RECREATION								
Park and Recreation Department								
2	Future Park and Recreation Projects	12,570	-	-	-	-	-	-
3	Future Park and Recreation Projects	300	-	-	-	-	-	-
4	Total Park and Recreation Department Projects	12,870	-	-	-	-	-	-
Tulsa Zoo								
6	Future Tulsa Zoo Projects	12,400	-	-	-	-	-	-
	Total Tulsa Zoo Projects	19,900	-	-	-	-	-	-
Arvest Convention Center and BOK Center								
7	Future Arvest Convention Center and BOK Center Projects	24,150	-	-	-	-	-	-
	Total Arvest Convention Center and BOK Center Projects	24,150	-	-	-	-	-	-
Performing Arts Center								
8	Future Performing Arts Center Projects	69,700	-	-	-	-	-	-
	Total Performing Arts Center Projects	69,700	-	-	-	-	-	-
River Parks								
9	Future River Parks Projects	29,770	-	-	-	-	-	-
	Total River Parks Projects	29,770	-	-	-	-	-	-
TOTAL CULTURAL DEVELOPMENT AND RECREATION PROJECTS								
		156,390	-	-	-	-	-	-
SOCIAL AND ECONOMIC DEVELOPMENT								
Planning & Neighborhoods Department								
10	Future Housing Projects	97,226	-	-	-	-	-	-
	Total Planning & Neighborhoods Department Projects	97,226	-	-	-	-	-	-
Economic Development								
11	Future Economic Development Projects	21,875	-	-	-	-	-	-
	Total Economic Development Projects	21,875	-	-	-	-	-	-
TOTAL SOCIAL AND ECONOMIC DEVELOPMENT PROJECTS								
		119,101	-	-	-	-	-	-
PUBLIC WORKS AND TRANSPORTATION								
Major Rehabilitation								
12	Arterial Street Rehabilitation Including Routine and Preventative	159,695	-	-	-	-	-	-
13	Arterial Street Rehabilitation Including Routine and Preventative	64,578	-	-	-	-	-	-
14	Non-Arterial Street Rehabilitation Including Routine and Preventative	54,108	-	-	-	-	-	-
15	Non-Arterial Street Rehabilitation Including Routine and Preventative	29,646	-	-	-	-	-	-
16	Bridge Rehabilitation Including Routine and Preventative	4,800	-	-	-	-	-	-
17	Bridge Rehabilitation Including Routine and Preventative	14,240	-	-	-	-	-	-
	Total Major Rehabilitation	327,066	-	-	-	-	-	-
Traffic Engineering / Citywide Projects								
18	Traffic Engineering / Citywide Improvements	15,710	-	-	-	-	-	-
19	Traffic Engineering / Citywide Improvements	8,831	-	-	-	-	-	-
	Total Traffic Engineering	24,541	-	-	-	-	-	-
	Total Streets And Expressway Projects	351,606	-	-	-	-	-	-

CITY OF TULSA
FISCAL YEARS 2027-2031 CAPITAL IMPROVEMENTS FUNDING SCHEDULE
 Prepared by the Department of Finance in Collaboration with the Operating Departments
 All Dollars In Thousands
 Priority Indicated Represents Department's Rating

Funding Source	Priority		Comments	Ref.
	FY27	FY28		
Future Sales Tax	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	1
Future Sales Tax	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	2
Future Bond Program	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	3
				4
Future Bond Program	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	6
Future Sales Tax	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	7
Future Bond Program	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	8
Future Sales Tax	Low	Low	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	9
Future Sales Tax	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	10
Future Sales Tax	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	11
Future Bond Program	High	High	Perform necessary rehabilitation on arterial streets as indicated through the Pavement Management System.	12
Future Sales Tax	High	High	Perform necessary rehabilitation on arterial streets as indicated through the Pavement Management System.	13
Future Bond Program	High	High	Perform necessary rehabilitation on non-arterial streets as indicated through the Pavement Management System.	14
Future Sales Tax	High	High	Repair of arterial streets that require multiple repairs of the same area to prolong usable life of street and prevent total replacement	15
Future Sales Tax	High	High	Repair of bridges that require multiple repairs of the same area to prolong usable life of street and prevent total replacement	16
Future Bond Program	High	High	Repair of bridges that require multiple repairs of the same area to prolong usable life of street and prevent total replacement	17
Future Sales Tax	High	High	Installation of new signage, durable pavement markings and delineation of medians to improve safety and congestion on arterial streets.	18
Future Bond Program	High	High	Installation of new signage, durable pavement markings and delineation of medians to improve safety and congestion on arterial streets.	19

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
Water System Supply								
20	Source Water Protection and Management Program	1,125	-	-	563	-	562	1,125
21	Spavinaw Creek Bridge Replacement	4,536	-	4,278	-	-	-	4,278
22	Eucha, Spavinaw Water Quality Court Master	3,998	637	656	675	696	716	3,380
23	Eucha Dam Concrete Repairs	656	-	-	-	-	656	656
24	Raw Water Flowlines Repairs Spavinaw	750	250	-	250	-	250	750
25	Unruh Intake Valve Replacement	2,265	-	-	2,265	-	-	2,265
26	Oologah Pump Station Chemical Building	175	-	-	175	-	-	175
27	Grand River Pump Station Refurbishment	8,240	8,240	-	-	-	-	8,240
28	Grand River Pump Station Refurbishment	895	-	-	-	-	895	895
29	Raw Water Flowlines Repairs Oologah	516	-	258	-	258	-	516
30	Bird Creek Pump Station Flow Meter and Oologah Flowlines Valve Replacement	579	-	116	463	-	-	579
31	Raw Water SCADA System	1,092	1,092	-	-	-	-	1,092
32	Oologah Pump Station Upgrades	1,004	1,004	-	-	-	-	1,004
33	Oologah Pump Station Upgrades	7,103	-	7,103	-	-	-	7,103
34	Mohawk Pump Station 1 Upgrades	519	-	-	519	-	-	519
35	Mohawk Pump Station 1 Upgrades	3,544	-	-	-	3,544	-	3,544
36	Mohawk Pump Station 2 Upgrades	5,273	-	-	-	653	-	653
37	Oologahj Raw Water Expansion	477	-	477	-	-	-	477
Total Supply		42,747	11,223	12,888	4,910	5,151	3,079	37,251
Treatment and Pumping								
38	Mohawk WTP Electrical Reliability Improvements	634	-	-	-	634	-	634
39	Mohawk WTP Electrical Reliability Improvements	7,947	-	-	-	-	7,947	7,947
40	Mohawk WTP Plant Wide Electrical Rehabilitation	4,963	491	-	-	4,472	-	4,963
41	Mohawk WTP Residual Improvements	371	371	-	-	-	-	371
42	Mohawk WTP Residual Improvements	16,435	-	1,639	-	-	-	1,639
43	Mohawk SCADA Replacement	5,475	627	-	-	2,388	2,460	5,475
44	Mohawk Administrative & Education	1,134	-	-	137	-	997	1,134
45	Mohawk Chedchemical Pipe Trench Improvement	1,345	-	-	-	113	1,232	1,345
46	A. B. Jewell Capacity Expansion to 150 MGD	148,935	-	-	17,892	-	34,778	52,670
47	A.B. Jewell -Chemical Feed Facilities Improvements	4,280	783	-	3,497	-	-	4,280
48	A.B. Jewell WTP Improvements - Residual Improvements Phase 2	5,570	5,570	-	-	-	-	5,570
49	A.B. Jewell WTP Electrical Reliability Improvements	13,759	-	-	-	-	13,759	13,759
50	A.B. Jewell WTP Electrical Reliability Improvements	1,030	-	1,030	-	-	-	1,030
51	A.B. Jewell WTP Filter Gallery Pipe and Concrete Replacement	1,611	-	-	-	-	1,611	1,611
Total Treatment And Pumping		213,489	7,842	2,669	21,526	7,607	62,784	102,428

Funding Source	FY27	FY28	Comments	Ref.
Water Enterprise	High	High	Ongoing program to protect and preserve the quality and integrity of the City's water supply, implement TMUA Policy for Land Acquisition, monitor water quality in the Spavinaw/Eucha and Oologah watersheds, identify and mitigate encroachments to the Spavinaw and Oologah flowlines, protect city assets and landowner rights, maintain water system security and provide surveying (as required) along the flowlines.	20
Water Revenue Bond	High	High	Construct a new bridge across Spavinaw Creek to replace old bridge Facility No. 043, as noted on Oklahoma Department of Transportation Bridge Inspection Report, immediately upstream of Lake Spavinaw for access to local residents and staff use. Bridge will require new roadway approach and acquisition of right of way for installation. Bridge will be designed to meet latest federal/state bridge design criteria. This bridge is considered important in maintaining access for neighboring communities and for city of Tulsa staff use. The responsibility for the upkeep of this bridge happened as a result of ruling from the Mayes County District Court of Mayes County, OK, to address the issues brought forth by Tulsa Ozark Club (TOC) in Civil (Case) No. 3020, July 10, 1924.	21
Water Enterprise	High	High	Implementation of the Court Master Agreement for the Spavinaw/Eucha watershed.	22
Water Enterprise	High	High	The purpose of this project is to provide concrete repairs to the Eucha Dam.	23
Water Enterprise	High	High	Ongoing projects to assess, rehabilitate, and repair raw water flowlines and associated facilities.	24
Water Enterprise	High	High	Intake valves for AB Jewell WTP are located on the intake structure in Unruh Reservoir. All six intake valves are corroded and broken. Funds are for the replacement of all six intake valves to ensure functional operation of plant intake.	25
Water Enterprise	High	High	Improvements at Oologah Pump Station Chemical Bulding.	26
Water Revenue Bond	High	High	Evaluate and inspect the vertical turbine pump; inspect and redress the right angle drive; evaluate and upgrade the electrical switchgear; and evaluate the operational efficiency of the pumps and engines.	27
Water Enterprise	High	High	Evaluate and inspect the vertical turbine pump; inspect and redress the right angle drive; evaluate and upgrade the electrical switchgear; and evaluate the operational efficiency of the pumps and engines.	28
Water Enterprise	High	High	This project will provide the equipment and personal to inspect and assess the condition of the Oologah Raw Waterlines. Various tools are available for gathering this necessary data to thoroughly evaluate the condition of the pipelines.	29
Water Enterprise	High	High	The investigation will begin at the Oologah Pump Station and proceed to know areas of concern. Entry points will be identified along the flowlines which will be used to gain access to the pipelines. The gathered data will be used to create assessment reports and help in the scheduling of repairs as needed.	30
Water Enterprise	High	High	Flow Meter and large valve replacement at Bird Creek and Oologah Pump Stations	30
Water Enterprise	High	High	Ongoing maintenance of SCADA Systems for Raw Water.	31
Water Enterprise	High	High	Upgrades to Oologah Pump Station	32
Water Revenue Bond	High	High	Upgrades to Oologah Pump Station	33
Water Enterprise	High	High	Upgrades to Mohawk Pump Station 1	34
Water Revenue Bond	High	High	Upgrades to Mohawk Pump Station 1	35
Water Enterprise	High	High	Upgrades to Mohawk Pump Station 2	36
Water Enterprise	High	High	Expansion of Oologah Raw Water System	37
Water Enterprise	High	High	WTP needs additional backup power generation to ensure production capacity of 60 mgd if primary power supply (PSO) if offline.	38
Water Revenue Bond	High	High	WTP needs additional backup power generation to ensure production capacity of 60 mgd if primary power supply (PSO) if offline.	39
Water Enterprise	High	High	WTP has aging electrical infrastructure that is reaching the end of it's life cycle. Funding is for rehabilitation of existing electrical substations, automatic transfer switches (ATS), and motor control centers (MCC).	40
Water Enterprise	High	High	WTP needs replacement and rehabilitation of aging water treatment residual system equipment, including pumps, valves, backwash equipment, gravity thickeners, blend tank, and belt filter presses.	41
Water Revenue Bond	High	High	WTP needs replacement and rehabilitation of aging water treatment residual system equipment, including pumps, valves, backwash equipment, gravity thickeners, blend tank, and belt filter presses.	42
Water Enterprise	High	High	Replace the existing DCS SCADA system with a PLC-based SCADA system for monitoring and controlling plant operations. Current SCADA system is proprietary and difficult to operate and maintain, due to complexity.	43
Water Enterprise	High	High	Provided for education opportunities and the associate administrative costs.	44
Water Enterprise	High	High	Provided for plant improvements.	45
Water Revenue Bond	High	High	To increase the capacity of the A.B.Jewell Water Treatment Plant to 150 million gallons per day.	46
Water Enterprise	High	High	Facilities identified for rehabilitation or replacement by EMA study. Includes PAC slurry system, chlorine system, chlorine scrubbers, and various chemical storage tanks and feed systems. Replace obsolete PAC with Silo style storage located closer to point of application; Upgrade chemical feed systems to coordinate with 30 MGD	47
Water Enterprise	High	High	Provides for the funding of residual improvements in connection with Phase 3 at the A.B. Jewell Water Treatment Plant	48
Water Revenue Bond	High	High	WTP needs additional backup power generation to ensure production capacity of 60 mgd if primary power supply (PSO) if offline.	49
Water Enterprise	High	High	WTP needs additional backup power generation to ensure production capacity of 60 mgd if primary power supply (PSO) if offline.	50
Water Enterprise	High	High	Provide improvements needed during maximum filter loading by identifying performance levels when seals begin to leak. Evaluate how and where water is flowing past piping seals during maximum filter loading and entering into the filter gallery. Project will need to determine the extent of damage done to the piping encased in the concrete walls and assess the structural integrity of these concrete walls. All facility piping and supports in the filter gallery are showing signs of rust and distress and will also need to be assessed.	51

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
<u>Transmission and Distribution</u>								
52	Transmission Main from A.B.Jewell - Phase 1	108,461	2,884	-	-	-	-	2,884
53	Large Water Valve and Vault Replacement	743	106	106	106	106	107	531
54	Transmission Line Condition Assessment-Citywide	751	250	-	251	-	250	751
55	Water Mains Relocations-Citywide	17,342	-	950	950	950	1,000	3,850
56	Water Mains Relocations-Citywide	950	950	-	-	-	-	950
57	Water Mains Replacement - City Wide - Revenue Bonds	73,931	14,884	16,508	15,600	17,034	9,635	73,661
58	Water Mains Replacements - City Wide-Enterprise Fund	281,203	-	-	2,594	3,000	11,000	16,594
59	Dead-End Connections and Extensions	5,600	350	350	350	350	350	1,750
60	Unserved Areas (Water)	131	-	-	-	131	-	131
61	Creek RWD 4 - Request to Acquire	2,553	-	-	274	929	-	1,203
62	East Tulsa Secondary System	27,417	2,060	-	-	25,357	-	27,417
63	Northwest Service Area Development	14,859	-	-	-	1,223	2,295	3,518
64	Utility Bridges Rehabilitation	409	-	100	-	100	-	200
65	West Tulsa Tank Rehabilitation	6,814	-	-	603	-	6,211	6,814
66	Turkey Mountain Tank Rehabilitation	909	-	-	116	-	793	909
67	South Tulsa Transmission Line, 60-inch	9,425	4,120	5,305	-	-	-	9,425
68	South Tulsa Transmission Line, 60-inch	161,834	-	-	-	-	14,781	14,781
69	Southwest Tulsa Transmission Main	3,200	3,200	-	-	-	-	3,200
70	Southwest Tulsa Transmission Main	13,250	-	13,250	-	-	-	13,250
71	Large Water Meters and Vault Replacement	1,272	212	212	212	212	212	1,060
72	Emergency Water Main Repair and Replacement	2,200	-	1,099	-	1,101	-	2,200
Total Transmission And Distribution		733,254	29,016	37,880	21,056	50,493	46,634	185,079
<u>Areawide</u>								
73	SCADA Assessment and Cybersecurity Analysis	523	258	265	-	-	-	523
74	SCADA Software & Hardware Replacement	1,545	1,545	-	-	1,689	-	3,234
75	SCADA Software & Hardware Replacement	8,451	-	1,592	1,640	-	1,739	4,971
76	Citywide AMI Network	8,115	-	-	8,115	-	-	8,115
77	Automatic Meter Reading - City Wide	21,893	10,300	-	-	-	11,593	21,893
78	Automatic Meter Reading - City Wide	32,791	-	10,609	10,927	11,255	-	32,791
79	Facility Roof Repairs Citywide	4,157	-	-	-	-	696	696
80	Economic Development Citywide	2,000	-	500	500	500	500	2,000
81	Economic Development Citywide	500	500	-	-	-	-	500
82	Total Areawide	79,975	12,603	12,966	21,182	13,444	14,528	74,723
Future Unfunded Projects								
83	Total Water System Projects	1,069,465	60,684	66,403	68,674	76,695	127,025	399,481
<u>Sanitary Sewer System</u>								
<u>Northside Plant</u>								
84	Northside Digester Sludge Heating Improvements	5,474	824	-	4,650	-	-	5,474
85	Northside WWTP DAF Thickening Improvements	1,642	-	184	-	1,458	-	1,642
86	Northside WWTP Digester Waste Gas Flare	1,979	-	-	-	-	222	222
87	Northside WWTP Aeration Basin Baffle Addition	887	-	112	775	-	-	887
88	Northside WWTP Aeration Basin & RAS Study	8,866	-	-	-	-	166	166

Funding Source	FY27	FY28	Comments	Ref.
Water Enterprise	High	High	This is Phase 1 of expansion work for A.B. Jewell Water Treatment Plant.	52
Water Enterprise	High	High	Ongoing program to replace water meters citywide to support revenue assurance policies.	53
Water Enterprise	High	High	Monitor and evaluate transmission lines citywide. Funding may also be used to modify and improve entry for testing and monitoring.	54
Water Enterprise	High	High	Replace water lines that meet the replacement criteria and /or have excessive break histories. Priorities will be determined based on line condition, age, type of materials, and coordination with other infrastructure improvements in the area to maximize efficiency and minimize the impact to customers and businesses.	55
Water Revenue Bond	High	High	Replace water lines that meet the replacement criteria and /or have excessive break histories. Priorities will be determined based on line condition, age, type of materials, and coordination with other infrastructure improvements in the area to maximize efficiency and minimize the impact to customers and businesses.	56
Water Revenue Bond	High	High	Replace water lines that meet the replacement criteria and /or have excessive break histories. Priorities will be determined based on line condition, age, type of materials, and coordination with other infrastructure improvements in the area to maximize efficiency and minimize the impact to customers and businesses.	57
Water Enterprise	High	High	Replace water lines that meet the replacement criteria and /or have excessive break histories. Priorities will be determined based on line condition, age, type of materials, and coordination with other infrastructure improvements in the area to maximize efficiency and minimize the impact to customers and businesses.	58
Water Enterprise	High	High	Construct new waterlines as needed citywide to maintain circulation of water which reduces the possibility of degrading water quality and provides for stabilized pressures during normal water use and especially during fire flow events.	59
Water Enterprise	High	High	Provide water service to unserved, developed areas in response to citizen petitions.	60
Water Enterprise	High	High	Tulsa to acquire this RWD. Project will assess the repair, maintenance, and improvements necessary for the Creek 4 RWD to operate in accordance with City of Tulsa and ODEQ requirements.	61
Water Revenue Bond	High	High	East Tulsa area is highly sought after for residential and commercial development. Elevations in the area require service from a secondary system to provide water at sufficient pressure. Project includes master plan, pump station, elevated storage tank, and transmission mains for the new secondary service area.	62
Water Enterprise	High	High		63
Water Enterprise	High	High	This project will provide maintenance as needed for the Utility Bridges with City waterlines.	64
Water Enterprise	High	High	Program to maintain and rehabilitate above ground treated water storage tanks. Funding may also be used to modify tanks to improve circulation for chloramine disinfection.	65
Water Enterprise	High	High	The program fund is to identify and design maintenance remedies to maintain compliance with ODEQ, and OSHA entry requirements for an above grade concrete tank.	66
Water Enterprise	High	High	New or upgraded water line	67
Water Revenue Bond	High	High	New or upgraded water line	68
Water Enterprise	High	High	New or upgraded water line	69
Water Revenue Bond	High	High	New or upgraded water line	70
Water Enterprise	High	High	Ongoing program to replace water meters citywide to support revenue assurance policies.	71
Water Enterprise	High	High	Ongoing program to emergency repair waterlines	72
Water Enterprise	High	High	Cybersecurity assessment of operational technology (OT) including system architecture updates, review of all previous work by outside consultants, onsite assessments of all existing infrastructure.	73
Water Revenue Bond	High	High	Update or replace SCADA software and hardware.	74
Water Enterprise	High	High	Update or replace SCADA software and hardware.	75
Water Revenue Bond	High	High	This project installs Advanced Metering Infrastructure (AMI) for new meter installations and all new commercial and 3-inch and larger meters are required to be AMR.	76
Water Revenue Bond	High	High	This project installs Automatic Meter Reading (AMR) for new meter installations and all new commercial and 3-inch and larger meters are required to be AMR.	77
Water Enterprise	High	High	This project installs Automatic Meter Reading (AMR) for new meter installations and all new commercial and 3-inch and larger meters are required to be AMR.	78
Water Enterprise	High	High	General repairs and maintenance on facility roofs.	79
Water Enterprise	High	High	Design and Construct projects for problems located at various sites throughout the City.	80
Water Revenue Bond	High	High	Design and Construct projects for problems located at various sites throughout the City.	81
Deferred Funding			Future projects identified within Constrained Inventory, but not funded within FY26-30 timeframe.	82
				83
Sewer Enterprise	High	High	This project includes a Conceptual design of the sludge recirculation and sludge heating system at the Northside Wastewater Treatment Plant. The conceptual design should consider customization to provide heating required for current and future digester loading including a heating system to serve all four current digesters. It is preferred that each digester would have a dedicated sludge recirculation pump, heat exchanger, and boiler located in the respective digester buildings or adjacent buildings.	84
Sewer Enterprise	High	High	This project would include design and installation of DAF saturation tanks, compressor system, and chain and flight equipment.	85
Sewer Enterprise	High	High	This project will build a new enclosed gas flare to improve safety and efficiency.	86
Sewer Enterprise	High	High	This project is to install new aeration basin baffles at the Northside Wastewater Treatment Plant. The aeration basin baffles will be installed at the end of zone two between the anoxic zone and the aeration zone. The installation of the baffles will reduce the cost and improve the treatment facility operations.	87
Sewer Enterprise	High	High	This project is to install new aeration basin baffles at the Northside Wastewater Treatment Plant.	88

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
89	Northside WWTP Headworks HVAC BAS Modifications	1,180	-	-	-	225	-	225
90	Northside/LBC WWTP Electrical Improvements	3,261	-	-	-	-	414	414
91	Northside FEB Concrete/Structural Repair	2,372	-	-	-	-	639	639
92	Hypochlorite Disinfection Rehabilitation	3,013	478	-	2,535	-	-	3,013
93	North Stormwater Pump Station Rehabilitation	907	-	-	-	-	112	112
94	WPC Outside Facility Lighting, Security, & Access Improvements	1,113	-	-	-	-	138	138
95	Northside WWTP Waste Load Allocation Study	350	-	350	-	-	-	350
96	Northside Lift Station Capacity Upgrade	440	42	24	374	-	-	440
97	Northside Lagoon #5 Rehabilitation	2,575	2,575	-	-	-	-	2,575
98	Northside Interceptor Improvements	2,000	2,000	-	-	-	-	2,000
99	Northside Interceptor Improvements	1,178	1,178	-	-	-	-	1,178
100	Mingo Creek Rehabilitation and Relief	24,606	-	-	156	808	1,199	2,163
101	Jones/Douglass Rehabilitation and Relief	9,061	-	159	365	505	420	1,449
102	Flatrock Creek Rehabilitation and Relief	5,849	541	-	5,308	-	-	5,849
103	Flatrock Creek Rehabilitation and Relief	88,122	7,850	1,077	-	3,536	9,263	21,726
104	Coal Creek FEB Rehabilitation	785	785	-	-	-	-	785
105	Coal Creek Rehabilitation	40,216	803	5,625	2,160	-	5,431	14,019
106	Coal Creek Rehabilitation	10,702	-	-	-	10,702	-	10,702
107	Total Northside Plant	216,578	17,076	7,531	16,323	17,234	18,004	76,168
<u>Southside Plant</u>								
108	Southside WWTP Intermediate Lift Station Rehabilitation	8,187	-	-	8,187	-	-	8,187
109	Southside WWTP Electrical Upgrades	4,483	-	555	-	3,928	-	4,483
110	Southside WWTP Digester Mixing System & WAS Improvements	681	-	-	681	-	-	681
111	Southside WWTP Digester Mixing System & WAS Improvements	6,500	-	-	-	-	6,500	6,500
112	Southside WWTP Concrete Rehabilitation and Replacement	8,630	8,630	-	-	-	-	8,630
113	Southside WWTP Aeration Basin Improvements	2,210	-	-	-	-	2,210	2,210
114	Southside WWTP Final Clarifier Improvements	16,206	803	-	-	-	-	803
115	Southside WWTP Final Clarifier Improvements	1,931	-	1,931	-	-	-	1,931
116	Southside WWTP Hypochlorite Disinfection Rehabilitation	554	554	-	-	-	-	554
117	Southside WWTP Hypochlorite Disinfection Rehabilitation	35,274	-	-	3,527	-	-	3,527
118	TWAS Storage Basin Cover Replacement & Structural Rehab	780	124	-	656	-	-	780
119	Southside WWTP Hydrogen Sulfide Assessment	172	-	-	-	-	172	172
120	King Place Sewer Main Extension	1,135	-	-	-	-	60	60
121	Southside Facility & Power Redundancy Study	388	312	-	76	-	-	388
122	Southside WWTP Primary Sludge Retrieval Modifications	3,088	-	-	-	-	629	629
123	RAS & WAS Pump Replacements (includes RAS VFDs)	5,125	-	-	813	-	4,312	5,125

Funding Source	FY27	FY28	Comments	Ref.
Sewer Enterprise	High	High	This project will modify and update Headworks Building HVAC Building Automation System (BAS) controls, monitoring, and alarming systems at Northside WWTP.	89
Sewer Enterprise	High	High	The project will involve replacing multiple MCC's, transformers and other electrical equipment in order to enhance reliability and upgrade equipment that is nearing the end of its useful service life.	90
Sewer Enterprise	High	High	This project will repair leaking concrete cracks; restore damaged sections of concrete; address the joints between concrete sections.	91
Sewer Enterprise	High	High	This project is to isolate each of the four Chlorine Contact Basins to control flow through each basin, to replace the existing sampling pump with an improved pumping system, and to replace the chemical storage tanks and fill panels so that staff can better monitor the filling of the chemical tanks.	92
Sewer Enterprise	High	High	This project will rehabilitate the existing North Stormwater Pump Station located at the Northside WWTP. Rehabilitation and equipment replacement is needed due to age and condition of the facility.	93
Sewer Enterprise	High	High	Rehabilitation and replacement of exterior and interior lighting, demolition of chemical feed equipment, security and access improvements.	94
Sewer Enterprise	High	High	Waste Load Allocation Study for expansion of the Lower Bird Creek (LBC) WWTP. This study would identify the allowable additional load discharged to Bird Creek due to the expansion of the LBCWWTP.	95
Sewer Enterprise	High	High	This project includes upgrades to lift station for capacity at Northside WWTP.	96
Sewer Enterprise	High	High	This project involves the rehabilitation of Lagoon #5 at the Northside Wastewater Treatment Plant	97
Sewer Enterprise	High	High	This project will rehabilitated Northside Interceptor using CIPP methods.	98
Sewer Revenue Bond	High	High	This project will rehabilitated Northside Interceptor using CIPP methods.	99
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	100
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	101
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	102
Sewer Revenue Bond	High	High	Provide added capacity to overloaded lines.	103
Sewer Enterprise	High	High	This project will rehabilitate the Coal Creek Flow Equalization Basin.	104
Sewer Enterprise	High	High	The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Existing, defective pipes in the area will be replaced or rehabilitated with construction that may be performed using pipe bursting, lining, or open cut as all are acceptable installation methods.	105
Sewer Revenue Bond	High	High	The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Existing, defective pipes in the area will be replaced or rehabilitated with construction that may be performed using pipe bursting, lining, or open cut as all are acceptable installation methods.	106
				107
Sewer Revenue Bond	High	High	Rehabilitate the intermediate lift station at the Southside WWTP. The intermediate lift station is a critical asset that conveys flow from the primary clarifiers to be further treated in the Secondary Process (Aeration and Final Clarification).	108
Sewer Enterprise	High	High	This project will replace aging infrastructure and increase redundancy	109
Sewer Enterprise	High	High	Install a new sludge mixing system for Digester 3 and Digester 4 at the Southside WWTP. Rehabilitate components of the Waste Activated Sludge (WAS) storage tank which is located at the Southside WWTP.	110
Sewer Revenue Bond	High	High	Install a new sludge mixing system for Digester 3 and Digester 4 at the Southside WWTP. Rehabilitate components of the Waste Activated Sludge (WAS) storage tank which is located at the Southside WWTP.	111
Sewer Enterprise	High	High	The purpose of this project is to provide redundancy to the distribution of digester sludge from the Southside Wastewater Treatment Plant to the 71st street dewatering facility. Currently, the only avenue to convey sludge between the two facilities for further treatment is through the use of the 2-mile force main between the two facilities. This force main has not had any interruptions to date, but if there is a failure there is currently no backup for sludge transfer between the two facilities. This solution can provide an emergency backup and provide redundancy to facilitate the implementation of a more permanent redundant transfer line.	112
Sewer Enterprise	High	High	This project would replace the Southside WWTP Aeration Basin	113
Sewer Enterprise	High	High	This project would rehabilitate the clarifiers, replace equipment/drives and implement improvements to reduce the solids buildup	114
Sewer Revenue Bond	High	High	This project would rehabilitate the clarifiers, replace equipment/drives and implement improvements to reduce the solids buildup	115
Sewer Enterprise	High	High	This project is to replace piping and valves from chemical tanks to feed pumps, level instruments and provide redundant heating.	116
Sewer Revenue Bond	High	High	This project is to replace piping and valves from chemical tanks to feed pumps, level instruments and provide redundant heating.	117
Sewer Enterprise	High	High	This project would include concrete repairs in the basin and the replacement of the existing FRP covers.	118
Sewer Enterprise	High	High	This project would provide for onsite H2S field testing and a technical memorandum (TM) to document recommendations to reduce corrosion impacts of H2S within the plant.	119
Sewer Enterprise	High	High	This project will provide sanitary sewer service to 25 residential properties.	120
Sewer Enterprise	High	High	This study would look at power generation, power quality as well as the electrical system and equipment of the Blower Building (including an electrical load study) to identify the cause and improvements necessary.	121
Sewer Enterprise	High	High	This project includes modifications to the Primary Clarifier Sludge Pit and suction piping.	122
Sewer Enterprise	High	High	This project will replace Southside WWTP RAS/WAS pumps are nearing the end of their useful life.	123

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
124	West Bank Interceptor Improvements	7,043	448	649	-	-	-	1,097
125	West Bank Interceptor Improvements	5,946			5,946	-	-	5,946
126	West Tulsa Rehabilitation & Relief	78,499	1,544	4,481	2,680	5,841	4,617	19,163
127	Upper Joe Creek - East Branch	6,289	526	489	-	5,321	206	6,542
128	Upper Joe Creek - East Branch -	9,396	-	-	5,218	-	-	5,218
129	Crow Creek Rehab and Relief	18,338	-	-	-	-	872	872
130	Crow Creek Rehab and Relief	1,804	-	1,804	-	-	-	1,804
131	Total Southside Plant	222,659	12,941	9,909	27,784	15,090	19,578	85,302
	<u>Haikey Creek Plant</u>							
132	Haikey Creek WWTP Waterline Loop	482	-	-	-	-	482	482
133	Haikey Creek Lift Station Improvements - Phase 4 Improvements	14,142	1,096	13,046	-	-	-	14,142
134	Haikey Creek WWTP Maintnace Office Build-Out	500	50	450	-	-	-	500
135	Haikey Creek SAMS Equipment Replacements	3,340	297	371	350	350	350	1,718
136	Total Haikey Creek Plant	18,464	1,443	13,867	350	350	832	16,360
	<u>Lower Bird Creek WWTP</u>							
137	LBC Wsaste Load Allocation Study	339	-	339	-	-		339
138	Rolling Hills Relief Sewer	19,649	869	1,080	-	-	-	1,949
139	Rolling Hills Relief Sewer	7,185	-	-	7,185	-	-	7,185
140	Total Lower Bird Creek WWTP	27,173	869	1,419	7,185	-	-	9,134

Funding Source	FY27	FY28	Comments	Ref.
Sewer Enterprise	High	High	The West Bank Interceptor Improvements will include repair, rehabilitation and /or replacement of 27 large vault style manholes and 3,522 linear feet of large diameter interceptor located along the Arkansas River from approximately W. 21st Street South to W. 51st Street South. The rehabilitation recommendations come from the Interceptor Corrosion Assessment study referenced below which identified observed corrosion in prestressed concrete cylinder pipe (PCCP) with embedded steel cylinder (ECP). Corrosion was also observed compromising the structural integrity of the manholes on the West Bank Interceptor. 27 manholes are recommended for repair, rehabilitation and /or replacement starting at Manhole 039-0509 and ending at Manhole 040-0544. The pipeline rehabilitation will begin at Manhole 040-0554 and end at Manhole 040-0544, with two (2) additional pipeline rehabilitations at segments 039-0498:039-0497 and 040-0559:040-0558.	124
Sewer Revenue Bond	High	High	The West Bank Interceptor Improvements will include repair, rehabilitation and /or replacement of 27 large vault style manholes and 3,522 linear feet of large diameter interceptor located along the Arkansas River from approximately W. 21st Street South to W. 51st Street South. The rehabilitation recommendations come from the Interceptor Corrosion Assessment study referenced below which identified observed corrosion in prestressed concrete cylinder pipe (PCCP) with embedded steel cylinder (ECP). Corrosion was also observed compromising the structural integrity of the manholes on the West Bank Interceptor. 27 manholes are recommended for repair, rehabilitation and /or replacement starting at Manhole 039-0509 and ending at Manhole 040-0544. The pipeline rehabilitation will begin at Manhole 040-0554 and end at Manhole 040-0544, with two (2) additional pipeline rehabilitations at segments 039-0498:039-0497 and 040-0559:040-0558.	125
Sewer Enterprise	High	High	The project consists of a multi-year rehab and replacement project in the West Tulsa basin of the South slope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project. The I&I Abatement target for this basin has not yet been defined. The West Tulsa basin is defined as the collection system that is monitored by permanent flow monitors TL-10, and TL-42, jointly. It contains 358,000 linear feet of pipe and encompasses maintenance areas 38-S, 39-S, 40-S, and 41-S.	126
Sewer Enterprise	High	High	The project consists of a multi-year rehab and replacement project in the Upper Joe Creek basin of the South slope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project.	127
Sewer Revenue Bond	High	High	The project consists of a multi-year rehab and replacement project in the Upper Joe Creek basin of the South slope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project.	128
Sewer Enterprise	High	High	The project consists of a multi-year rehab and replacement project in the Crow Creek basin of the South slope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project. The I&I Abatement target for Crow Creek is a 30% reduction. The Crow Creek basin is defined as the collection system that is monitored by permanent flow monitor TL-26. It contains 442,000 linear feet of pipe and encompasses maintenance areas 44-S, 45-S, and 62-S.	129
Sewer Revenue Bond	High	High	The project consists of a multi-year rehab and replacement project in the Crow Creek basin of the South slope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project. The I&I Abatement target for Crow Creek is a 30% reduction. The Crow Creek basin is defined as the collection system that is monitored by permanent flow monitor TL-26. It contains 442,000 linear feet of pipe and encompasses maintenance areas 44-S, 45-S, and 62-S.	130
				131
Sewer Enterprise	High	High	New or upgraded water line	132
			Provide improved wet weather performance of the lift station. Phase 1, 2 and 3 Improvements are mostly complete. This project scope is described as Phase 4 Improvements in February 2012 study. It includes the design and construction of a new submersible lift station to supplement and work in tandem with the existing lift station to increase firm pumping capacity to 41.9 MGD (sizing to be confirmed during design phase). Selected consultant for Phase 4 shall provide a business case evaluation for the final Phase 5 Improvements as part of design scope.	133
Sewer Enterprise	High	High		
Sewer Enterprise	High	High	This project provides a safe, healthy and efficient office space for Haikey Creek WWTP Maintenance Staff. This office build-out includes: offices, restrooms, break room and storage room.	134
Sewer Enterprise	High	High	Replacement of plant capital at Haikey Creek Waste Water Treatment Plant	135
				136
Sewer Enterprise	High	High	This study would identify the allowable additional load discharged to Bird Creek due to the expansion of the LBCWWTP.	137
Sewer Enterprise	High	High	The project includes upgrades to the electrical equipment at Rolling Hills Lift Station.	138
Sewer Revenue Bond	High	High	The project includes upgrades to the electrical equipment at Rolling Hills Lift Station.	139
				140

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
Wastewater System Misc. Improvements								
141	SCADA Software & Hardware Replacement	5,387	2,060	-	1,639	1,688	-	5,387
142	SCADA Software & Hardware Replacement	3,861	-	2,122	-	-	1,739	3,861
143	Private Property I/I Abatement Program	17,324	258	-	1,093	-	1,159	2,510
144	Private Property I/I Abatement Program	2,187	-	1,061	-	1,126	-	2,187
145	Lift Station Replacements or Upgrades - Enterprise	47,125	2,726	1,061	2,575	2,653	2,732	11,747
146	Lift Station Replacements or Upgrades - Enterprise	1,624	-	1,624	-	-	-	1,624
147	Jones/Douglas Priority Repairs	371	371	-	-	-	-	371
148	Jones/Douglas Priority Repairs	5,240	-	5,240	-	-	-	5,240
149	Total Wastewater System Misc. Imp	19,511	5,415	11,108	5,307	5,467	5,630	32,927
Areawide Collection System								
150	Sewer Rehab Area Wide - Enterprise	93,963	517	1,020	5,040	5,266	5,499	17,342
151	Sewer Rehab Area Wide - Revenue Bond	13,800	6,590	6,300	2,500	2,500	2,500	20,390
152	SCADA Assessment and Cybersecurity	523	258	265	-	-	-	523
153	Wastewater Risk, Resiliency, & Emergency Response	273	-	-	273	-	-	273
154	Areawide Manhole Replacement	27,238	3,090	-	3,278	1,688	1,739	9,795
155	Areawide Manhole Replacement	6,273	-	3,183	-	-	-	3,183
156	Small Unsewered Area Mainline Extensions	6,404	515	530	546	563	580	2,734
157	Areawide Point Repairs	46,854	3,090	3,183	3,278	3,377	3,478	16,406
158	Street Package - Sewer Rehab Citywide	58,317	3,863	3,978	4,098	4,221	4,347	20,507
159	Force Main Condition Assessment	9,310	676	696	717	738	760	3,587
160	Interceptor Condition Assessment	8,935	750	750	750	750	750	3,750
161	Large Diameter Interceptor Manhole Rehabilitation Phase 1	151	-	-	-	151	-	151
162	Economic Development Wastewater Infrastructure	4,000	500	500	500	500	500	2,500
163	Manhole Condition Assessment and Rehabilitation Program	54,162	3,605	-	3,825	3,939	4,057	15,426
164	Manhole Condition Assessment and Rehabilitation Program	3,713	-	3,713	-	-	-	3,713
165	Emergency Sewer Repair, Rehabilitation and Replacement	28,602	2,200	2,200	2,201	2,200	2,200	11,001
166	RCP Interceptor Rehabilitation Phase 1	11,245	328	-	-	-	-	328
167	RCP Interceptor Rehabilitation Phase 1	5,217	-	-	5,217	-	-	5,217

Funding Source	FY27	FY28	Comments	Ref.
Sewer Enterprise	High	High	Update or replace SCADA software and hardware.	141
Sewer Revenue Bond	High	High	Update or replace SCADA software and hardware.	142
Sewer Enterprise	High	High	The project consists of an areawide multi-year rehab and replacement program to evaluate and abate Inflow and Infiltration from Private Sewer Laterals connected to the city's wastewater collection system.	143
Sewer Revenue Bond	High	High	The project consists of an areawide multi-year rehab and replacement program to evaluate and abate Inflow and Infiltration from Private Sewer Laterals connected to the city's wastewater collection system.	144
Sewer Enterprise	High	High	Lift Station Replacements or Upgrades - Enterprise	145
Sewer Revenue Bond	High	High	Lift Station Replacements or Upgrades - Enterprise	146
Sewer Enterprise	High	High	Sanitary Sewer Evaluation Studies (SSES) including smoke testing and dye testing. Mainline defects found during smoke testing indicated structurally deficient sewer lines and inflow and infiltration (I/I) contributors. Work includes rehabilitation or replacement of manholes and gravity main sewer.	147
Sewer Revenue Bond	High	High	Sanitary Sewer Evaluation Studies (SSES) including smoke testing and dye testing. Mainline defects found during smoke testing indicated structurally deficient sewer lines and inflow and infiltration (I/I) contributors. Work includes rehabilitation or replacement of manholes and gravity main sewer.	148
				149
Sewer Enterprise	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	150
Sewer Revenue Bond	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	151
Sewer Enterprise	High	High	Cybersecurity assessment of operational technology (OT) including system architecture updates, review of all previous work by outside consultants, onsite assessments of all existing infrastructure.	152
Sewer Enterprise	High	High	Develop a risk and resiliency plan that includes emergency response for all four wastewater treatment plants modeled after the requirements established by AWIA for water systems.	153
Sewer Enterprise	High	High	Annual replacement of manhole covers.	154
Sewer Revenue Bond	High	High	Annual replacement of manhole covers.	155
Sewer Enterprise	High	High	Unserved area projects.	156
Sewer Enterprise	High	High	Reflects estimate of need for short term infrastructure reinvestment.	157
Sewer Enterprise	High	High	Annual rehab and replacement of sewer areas.	158
Sewer Enterprise	High	High	The scope of this BCE is to develop an asset management plan in FY19 to perform future, annual condition assessment on collection system force mains based on criticality. Over 60 miles of force main are currently operated and maintained by SOM and WPC.	159
Sewer Enterprise	High	High	The scope of this BCE is to develop an asset management plan (AMP) in FY19 to perform condition assessment on the remaining 323,000 LF of large diameter concrete interceptor based on criticality.	160
Sewer Enterprise	High	High	Large Diameter Gravity Main Assessment provided rehabilitation recommendations for large-diameter gravity main sewer pipes and manholes in various locations in the TMUA collection system. Phase 1 includes rehabilitation or replacement of sanitary sewer manholes.	161
Sewer Enterprise	High	High	This program will focus on providing sanitary sewer services to key sites citywide as determined by the City of Tulsa's Office of Economic Development. These key sites will be prioritized for public infrastructure needs and work toward "site certification" so as to be shovel ready to attract industrial development.	162
Sewer Enterprise	High	High	Program to fund manhole condition assessment, rehabilitation, and replacement as part of the City of Tulsa SSO mitigation plan to prevent sanitary sewer overflows, correct unsafe structural conditions, and reduce risk with regards to the management of these assets. This will be an ongoing program to manage risk, correct deficiencies, and meet regulatory requirements.	163
Sewer Revenue Bond	High	High	Program to fund manhole condition assessment, rehabilitation, and replacement as part of the City of Tulsa SSO mitigation plan to prevent sanitary sewer overflows, correct unsafe structural conditions, and reduce risk with regards to the management of these assets. This will be an ongoing program to manage risk, correct deficiencies, and meet regulatory requirements.	164
Sewer Enterprise	High	High	Program to fund emergency sanitary sewer system repairs, rehabilitation, and replacement as part of the City of Tulsa SSO mitigation plan to prevent sanitary sewer overflows. Operations will take the lead on this CIP line item with technical support from Engineering Services.	165
Sewer Enterprise	High	High	TMUA ES 2021-03 Large Diameter Gravity Main Assessment provided rehabilitation recommendations for large diameter gravity main sewer pipe in various locations in the TMUA collection system. Rehabilitation recommendations for assets of similar class and failure form were grouped together and separated into Phase 1 with the potential to fail within zero (0) to five (5) years and Phase 2 with the potential to fail between five (5) to ten (10) years. This business case development project form includes Phase 1 reinforced concrete pipe with the potential to fail due to observed corrosion compromising the structure integrity of the pipe. Rehabilitation by cured-in-place pipe (CIPP) lining is recommended for 3,710 linear feet. Pipe segments are located in Maintenance Zones 044 and 045 (Crow Creek) and 046 and 047 (East Bank).	166
Sewer Revenue Bond	High	High	TMUA ES 2021-03 Large Diameter Gravity Main Assessment provided rehabilitation recommendations for large diameter gravity main sewer pipe in various locations in the TMUA collection system. Rehabilitation recommendations for assets of similar class and failure form were grouped together and separated into Phase 1 with the potential to fail within zero (0) to five (5) years and Phase 2 with the potential to fail between five (5) to ten (10) years. This business case development project form includes Phase 1 reinforced concrete pipe with the potential to fail due to observed corrosion compromising the structure integrity of the pipe. Rehabilitation by cured-in-place pipe (CIPP) lining is recommended for 3,710 linear feet. Pipe segments are located in Maintenance Zones 044 and 045 (Crow Creek) and 046 and 047 (East Bank).	167

Ref.	Project	Est. Cost	FY27	FY28	FY29	FY30	FY31	Total
168	DIP Interceptor Rehabilitation Phase 1	1,686	-	101	-	1,585	-	1,686
169	Total Areawide Collection System	380,666	25,982	26,419	32,223	27,478	26,410	138,512
170	Total Sanitary Sewer System Projects	948,659	63,726	70,253	89,172	65,619	70,454	359,224
Stormwater								
171	Citywide Channel Erosion & Stabilization	7,450	2,000	400	3,100	1,700	-	7,200
172	Citywide Channel Erosion & Stabilization	4,700	1,000	1,500	-	-	2,200	4,700
173	Hager Creek - Storm Sewer Relief Line	14,000	5,000	4,000	5,000	-	-	14,000
174	Citywide Concrete Channel Rehabilitation	7,650	-	1,100	250	2,000	1,000	4,350
175	Small Drainage - Citywide FEMA buyout program	3,600	500	500	600	600	600	2,800
176	Citywide Economic Development	2,600	100	100	100	150	250	700
177	Citywide Detention Pond Rehabilitation	3,600	500	500	500	600	1,000	3,100
178	Citywide Rehabilitation and Replacement	22,132	1,570	4,550	1,900	2,400	3,350	13,770
179	Storm Sewer Extensions - Citywide	15,250	4,500	700	950	1,150	4,100	11,400
180	Storm Sewer Extension - Citywide	11,000	-	3,000	-	8,000	-	11,000
181	Transportation Projects - Stormwater	7,300	2,300	1,150	1,500	1,000	500	6,450
182	Transportation Projects - Stormwater	10,300			5,800		4,500	10,300
	Total Stormwater Projects	109,582	17,470	17,500	19,700	17,600	17,500	89,770
TOTAL PUBLIC WORKS AND TRANSPORTATION PROJECTS		2,479,312	141,880	154,156	177,546	159,914	214,979	848,475
ADMINISTRATIVE AND SUPPORT SERVICES								
Asset Management Department								
183	Citywide Public Facilities Maintenance Projects	58,876	-	-	-	-	-	-
184	Citywide Public Facilities Maintenance Projects	2,825	-	-	-	-	-	-
	Total Asset Management Department Projects	61,701	-	-	-	-	-	-
Short Term and Bond Issuance								
185	Short Term Capital	84,204						-
186	Bond Issuance Costs	1,467						-
	Total Short Term and Contracted Capital Projects	85,671	-	-	-	-	-	-
TOTAL ADMINISTRATIVE AND SUPPORT SERVICES PROJECTS		147,372	-	-	-	-	-	-
TOTAL CAPITAL PROJECTS INVENTORY		2,939,663	141,880	154,156	177,546	159,914	214,979	848,475

Funding Source	FY27	FY28	Comments	Ref.
Sewer Enterprise	High	High	TMUA ES 2021-03 Large Diameter Gravity Main Assessment provided rehabilitation recommendations for large diameter gravity main sewer pipe in various locations in the TMUA collection system. Rehabilitation recommendations for assets of similar class and failure form were grouped together and separated into Phase 1 with potential to fail within zero (0) to five (5) years and Phase 2 with potential to fail between five (5) to ten (10) years. This business case development project form includes Phase 2 reinforced concrete pipe with potential to fail due to observed corrosion compromising structure integrity of the pipe. Rehabilitation by cured in place pipe	168 169 170
Stormwater Enterprise	High	High	Citywide Channel Erosion and Stabilization - Unmaintained natural creeks and deferred maintenance of improved channels threaten public safety and property.	171
Stormwater Revenue Bond	High	High	Citywide Channel Erosion and Stabilization - Unmaintained natural creeks and deferred maintenance of improved channels threaten public safety and property.	172
Stormwater Revenue Bond	High	High	Increasing Stormsewer capacity/elevating roadways	173
Stormwater Enterprise	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	174
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	175
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	176
Stormwater Enterprise	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	177
Stormwater Enterprise	High	High	Citywide Rehabilitation & Replacement	178
Stormwater Enterprise	High	High	Citywide Storm Sewer Extensions	179
Stormwater Revenue Bond	High	High	Citywide storm Sewer Extensions	180
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	181
Stormwater Revenue Bond	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	182
Future Bond Program	High	High	Major renovation of city facilities utilized by City personnel and the public at various locations citywide. Project consists of HVAC, plumbing and electrical system replacement, flooring and painting every 20 years. The amount of funding is needed to implement the program from 2017-2022 as presented to City Council. The annualized cost of the program is \$7,420,857.00.	183
Future Sales Tax	High	High	Projects within approved capital programs and projected to be funded within the FY26-30 timeframe	184
Future Sales Tax	High	High	To replace miscellaneous capital equipment.	185
Future Bond Program	High	High	Bond sale related costs.	186