

5-YEAR CAPITAL IMPROVMENT PLAN
Fiscal Years 2018-2022



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Introduction

Capital facilities and adequate infrastructure are critical for the City's continued growth. The City of Fort Worth (CFW) Capital Improvement Plan (CIP) describes the capital projects and the associated funding sources the City intends to undertake in the current fiscal year, plus four successive fiscal years, including the acquisition or construction of capital facilities and assets, and the maintenance of those facilities and assets.

A capital asset may be land, improvements to land, easements, buildings, building improvements, vehicles, machinery, equipment, works of art, infrastructure, and all other tangible or intangible assets that are used in operations and that have initial useful lives extending beyond a single reporting period.

The FY2018-2022 CIP includes a total of over two billion dollars in planned capital expenditures during the five-year period. Planned capital expenditures are presented in CIPs that include the General CIP, Aviation CIP, Environmental Management CIP, Municipal Parking CIP, Public Events CIP, Solid Waste CIP, Stormwater CIP, and Water CIP. Each CIP is a set of capital expenditures for the City. Capital expenditures are defined as expenditures resulting in the acquisition of, or addition to, the government's capital assets.

Presentation of CIPs

Highlights of each CIP are presented in the following paragraphs to provide a brief summary of capital improvement efforts. Later sections provide a more in-depth description of each CIP.

General CIP

Multiple Departments fall within the City's General CIP. These Departments include: Communication and Public Engagement, Fire, Information Technology Solutions, Library, Neighborhood Services, Park and Recreation (including Golf), Police, Property Management, and Transportation and Public Works.

General CIP – Communication and Public Engagement

The Communication and Public Engagement Department's CIP contains \$5,250,000 in planned expenditures over the five year period. These capital expenditures enable the replacement and upgrade of technology in direct support of the City Council.

General CIP - Fire

The Fire Department's FY2018-2022 CIP contains total planned expenditures of \$26M over the five year period. These fiscal resources reflect the Department's commitment to add additional fire stations in fast-growing areas of the City, including newly annexed areas, along with replacement of small, aging fire stations that have significant maintenance costs and structural deficiencies. In addition, the FY2018-2022 CIP reflects includes the Department's commitment to replace apparatus fleet. Technology acquisitions are included in Technology Solutions. They demonstrate a commitment to technology acquisition and improvement as the Department plans for upgrades of mobile data computers, the outdoor warning siren system, the fire station alerting system, and other technology enhancements. These technology improvements, combined with additional facilities, and regular fleet replacement, enable the continued

delivery of all aspects of public safety to the community in a more effective and safe manner.

General CIP – Information Technology Solutions

The Information Technology Department's FY2018-2022 CIP contains planned expenditures totaling \$41M over the 5-year period. Highlights of this capital plan include expansion and encryption for the outdoor warning system, growth in the technology infrastructure, additional applications to improve operational efficiencies, funding for computer refresh, improvement to facilities and resource mobilization, establishing audio visual systems and vehicles. These CIP initiatives will ensure that the department can not only continue to support current systems but will also grow them to meet the technology needs of the City's departments.

General CIP – Library

The Library Department's FY2018-2022 CIP provides a tangible demonstration of the City's commitment to support all people in their enjoyment of reading, use of recreational materials, and pursuit of learning. This update to the Library CIP includes \$842,000 in funding for furniture, fixtures, and equipment at the Golden Triangle Library. Plans for the future include a new library in south Fort Worth. Funding for this facility is dependent upon the availability of future bond issuances.

General CIP – Neighborhood Services

The FY2018-2022 CIP for the Neighborhood Services Department reflects the City's sustained commitment to the use of capital funding to support both Neighborhood Improvement Strategies (NIS) and alleyway maintenance. The FY2018-2022 total for both NIS and alleyway maintenance is slightly more than \$15M. While the specific improvements will be tailored to the need in each neighborhood and alleyway, activities supported by these funds include (but are not limited to) substandard building abatement, urban forestry to improve roadside conditions, streetlight installation, and security camera installation. The FY 2018-2022 CIP enables the use of capital monies for demonstrable, lasting improvements in the community and reflects the commitment of the Neighborhood Services Department to make neighborhoods cleaner and safer, both now, and in the future.

General CIP – Park & Recreation (including Golf)

The Park and Recreation Department's FY2018-2022 CIP represents the Department's roadmap for future project expenditures for city-wide Park System improvements and Golf capital improvements. City-wide Park System capital improvements total \$53M and \$1.7M in Golf capital improvements over the five year period. These fiscal resources reflect the Department's commitment to replacement and renovation of existing park and golf infrastructure as well as provide new facilities for developing and redeveloping areas. Specifically, the CIP includes improvements such as erosion repair, road and parking lot repaving projects, playground replacement projects, development of new athletic field facilities, construction and sustainment of walks and trails, installation of security lighting,

irrigation improvements, and development of reserve parks.

General CIP – Police

The Police Department's FY2018-2022 CIP contains total planned expenditures of \$53M over the five year period. These fiscal resources reflect the Department's commitment to replenishment of the vehicle fleet and safe maintenance of the helicopter fleet. The CIP also reflects a sustained commitment to technology acquisition and improvement as the Department plans to invest over \$2M per year for the acquisition of mobile data computers, secure data storage, and other technology requirements. Technology acquisitions are included under Technology Solutions. The provision of safe and up-to-date equipment to sworn officers, and support staff, enables the continued delivery of all aspects of public safety to the community.

General CIP – Property Management

Property Management Department is responsible for managing building maintenance and repair, facility planning as well as architectural and construction management services for City facilities. The FY2018-2022 Capital Improvement Plan (CIP) contains total planned expenditures of \$122M over the five year period. These fiscal resources reflect the Department's commitment to maintain approximately 3 million sq. ft. of City facilities. The CIP reflects a sustained commitment to the upkeep of City facilities including projects such as facilities renovation and remodel, HVAC and plumbing improvements, structural repairs, roof replacement, carpet and hard floor replacement.

General CIP – Street System

The Street System FY2018-2022 CIP contains planned appropriations of over \$449M. The Street System serves all modes of transportation - vehicles, pedestrians, bicycles and public transportation providers, creating a mobile community that stimulates economic growth, revitalizing existing development, developing City growth centers, and building strong neighborhoods. Continued investment in the street infrastructure is critical to ensure that existing assets are functioning at their desired level and that new streets and facilities are added to serve the continued economic development and growth of the City and region.

Aviation CIP

The Aviation FY2018-2022 CIP contains over \$123M in planned capital expenditures. Highlights of this CIP include a multi-year project to extend multiple runways and taxiways at Alliance Airport; the design and construction of a parallel taxiway at Meacham Airport and the construction of various taxiways at Spinks Airport. The primary source of funding for capital improvements comes in the form of grants from the Federal Aviation Administration (over \$80M). Other funding sources include land credits, gas well revenues, and Pay As You Go (Pay-Go) (cash) funding.

Environmental Management CIP

The Environmental Management FY2018-2022 CIP contains total planned expenditures of \$5.6M over the five-year period. These fiscal resources reflect the City's commitment to implement plans and projects that protect human health and the environment through environmental planning and mitigation of pollution in water, soil, groundwater and air. The CIP also reflects a sustained commitment to supporting economic growth and redevelopment by reducing blight and

environmental hazards that may prevent or delay opportunities for repurposing or redeveloping property. Furthermore, the CIP supports efforts for advancing litter controls and safely managing hazardous materials.

Municipal Parking CIP

The Municipal Parking FY2018-2022 CIP contains over \$850,000 in planned capital expenditures. Highlights of this CIP include new technology in the way of handhelds, guidance systems, pay stations, the development of the Houston Street retail space, and new equipment to make the parking lots and garages safer and a more user friendly experience.

Public Events CIP

The Public Events FY2018-2022 CIP contains approximately \$32M in planned capital expenditures. Highlights of this CIP include multi-year contributions to the Dickies Arena, multi-year projects to allow for replacement of the roofs at the Convention Center and Will Rogers Memorial Center (WRMC); as well as, sound system upgrades at WRMC. The primary sources of funding for capital improvements comes in the form of the 2% Hotel Occupancy Tax, DFW Rental Car Tax, and the Culture and Tourism Operating Fund. The FY2018-2022 CIP ensures the Public Events Department can continue to serve as a major contributor to the City's robust tourism industry and enables responsible maintenance and enhancements of the City's tourism related assets.

Solid Waste CIP

The Solid Waste FY2018-2022 CIP contains over \$30.6M in planned capital and defined pilot program expenditures over the next five years. Highlights of this CIP include a multi-year funding commitment to implement the City's 2017-2037 Comprehensive Solid Waste Management Plan;

engagement of industrial, commercial and institutional organizations in waste minimization and diversion practices through the Material Management Program; evaluation and implementation of necessary programs to preserve the long-term disposal capacity in the City's Southeast Landfill; and improvement of Residential Services with enhanced contracts and "Top Shelf" programs. The FY2018-2022 Solid Waste CIP ensures community safety and environmental improvements beyond the five-year period.

Stormwater CIP

The Stormwater 2018-2022 CIP total's nearly \$67M and funds capital improvements required to mitigate flood risk, ensure system reliability by replacing aging infrastructure and facilities, support the City's bond programs for street rehabilitation, meet corporate priorities, and facilitate economic revitalization in areas where development is hampered by chronic flooding.

Water CIP

The Water FY2018-2022 Capital Improvement Plan contains approximately \$1B in planned capital expenditures over a five year period. The plan furthers the Water Department's mission to enable the community to thrive with clean water done right every time. The plan includes strategies to address system growth, rehabilitation, corporate priorities, legislative and regulatory mandates and operational enhancements. Funding is primarily achieved through the sale of revenue bonds and Pay-Go funding, but also leverages gas lease revenues, impact fee revenues and State funds.

In FY2018, the plan includes funding for the remaining phases of the "MyH20" program which will give customers new tools and information to better understand and manage their water use,

promote efficiencies from treatment to tap, and improve processes and operations across the utility.

In FY2018, the Plan also includes funding for the Village Creek Basin Wastewater Improvements, which will provide much needed wastewater capacity for growth in Southwest Fort Worth; the Village Creek Water Reclamation Facility Biosolids Master Plan Implementation, which provides for long term processing and disposal of Village Creek residuals; and the Sanitary Sewer Overflow Initiative which consists of a series of projects as well as operation and maintenance procedures necessary to continue to reduce the number of sanitary sewer overflows within the wastewater collection system.

Summary

As noted in the preceding paragraphs, the City of Fort Worth has a robust, funded, and future-focused CIP. This document reflects a months-long, city-wide dedicated, effort in the planning and production of the FY 2018-2022 CIP. The following pages provide enhanced detail and full transparency on all the elements of the CIP.

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CFW FY2018 - 2022 CIP Summary by Plan and Department							
CIP	Department	FY2018	FY2019	FY2020	FY2021	FY2022	Total
General	Communication and Public Engagement	\$1,000,000	\$850,000	\$750,000	\$1,800,000	\$850,000	\$5,250,000
General	Fire	\$4,591,000	\$6,575,000	\$4,939,000	\$5,122,000	\$5,313,000	\$26,540,000
General	Information Technology Solutions	\$10,892,113	\$7,464,000	\$7,594,000	\$7,730,000	\$7,269,000	\$40,949,113
General	Library	\$842,000	\$0	\$0	\$0	\$0	\$842,000
General	Neighborhood Services	\$2,854,000	\$2,967,000	\$3,085,000	\$3,207,000	\$3,334,000	\$15,447,000
General	Park and Recreation (including Golf)	\$5,034,938	\$24,263,632	\$8,226,947	\$8,430,958	\$9,207,566	\$55,164,041
General	Police	10,983,363	10,114,000	10,099,000	10,099,000	10,099,000	\$51,394,363
General	Property Management	\$43,208,900	\$37,557,800	\$33,981,912	\$3,734,549	\$3,883,931	\$122,367,092
General	Transportation and Public Works	\$84,787,399	\$102,179,000	\$96,969,000	\$94,847,999	\$71,117,999	\$449,901,397
Aviation	Aviation	\$19,071,935	\$27,122,550	\$23,540,677	\$20,353,889	\$33,452,000	\$123,541,051
Environmental Management	Code Compliance	\$0	\$1,155,000	\$1,495,000	\$1,335,000	\$1,690,000	\$5,675,000
Municipal Parking	Transportation and Public Works	\$503,052	\$185,000	\$73,224	\$60,628	\$30,000	\$851,904
Public Events	Public Events	\$7,301,000	\$6,649,603	\$8,048,686	\$6,898,686	\$3,425,000	\$32,322,975
Solid Waste	Code Compliance	\$1,975,950	\$7,080,000	\$11,850,000	\$7,090,000	\$2,690,000	\$30,685,950
Stormwater	Transportation and Public Works	\$17,472,000	\$11,678,000	\$12,094,000	\$12,518,000	\$12,964,000	\$66,726,000
Water	Water	\$276,564,968	\$217,675,921	\$185,430,431	\$174,412,103	\$159,051,523	\$1,013,134,946
Total		\$487,082,618	\$463,516,506	\$408,176,877	\$357,639,812	\$324,377,019	\$2,040,792,832

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OVERVIEW

The Communications & Public Engagement Department works with City departments, leadership and elected officials to inform and engage the residents of Fort Worth about the activities of the city through a comprehensive use of public engagement and communication tools. The department also ensure that employees receive regular communications and information on initiatives and important city issues.

Background and History

The Communications & Public Engagement Department was originally created in FY2012 as the Office of Media and Public Affairs, a division of the City Manager's Office. It had oversight of the City's website and Cable Communications Office and was responsible for communicating news and information accurately and quickly about the City's strategic goals, services, policies and programs to residents through a variety of communication channels. In 2013, the office was renamed and become the Communications & Public Engagement Office. In FY2018, the management of the Communication & Public Engagement Office was transferred to the newly-created Communications & Public Engagement Department and is comprised of four Divisions: Communications, Community Engagement, City Call Center, and Cable and Video Communications – FWTV.

Cable and Video Communication - FWTV

The Cable Communications Fund was created in 1988 shortly after the amended franchise agreement with Sammons Cable was approved by the City Council. The Cable Communications Fund was established to meet construction obligations and

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regulations as outlined in the original contract with the Cable Communications Office producing programming for the Municipal and Community access channels. In 1995, Sammons Cable was purchased by Marcus Cable, resulting in a revised franchise agreement. In 1999, a new franchise agreement was implemented when Charter Communications purchased Marcus Cable.

In FY2011, management of the Cable Communications Fund transferred from the Community Relations Department to the City Manager's Office. In FY2012 the operating expenses were transferred to the General Fund. The primary functions of the Fund include: 1) management of all matters relating to state cable television franchises; 2) administration of the portion of the Special Trust Fund that finances the City's cable television operation; and 3) creation of original programming hours to exceed state requirements for the Municipal and Community cable television access channels for which the City is responsible.

The Cable and Video Communication (FWTV) Division broadcasts and records municipal meetings for public viewing on the Municipal channel and website. These include live coverage of City Council, Building Standards, Plan and Zoning Commissions meetings. Cable production crews also produce a variety of departmental programs to help inform and educate residents of City services and offerings.

CAPITAL REVENUE SOURCES

The Cable Communications Fund receives funding from Public, Educational, and Governmental (PEG)

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fees from cable subscribers. Due to changes in state legislation, the PEG revenues can only be used for equipment replacement and other capital expenses.

The Cable and Video Communications – FWTV is part of the Communications and Public Engagement Department. All capital expenses for this office are paid through PEG fees paid to the city by the local cable provider. Approximately \$1.2 million dollars

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in PEG fees is received each year. These fees are put into a special fund for FWTV Capital purchases. PEG fees must be spent in accordance with Federal law, which stipulates that they cannot be used for any expense that is not considered a capital expenditure, generally defined as items with a life expectancy greater than one year.

5-YEAR CAPITAL PLAN SUMMARY

The following table and summaries detail the FWTV division's capital purchase requirements for the next five years.

5-year Capital Plan for FWTV

Fiscal Year	Funding Source	Amount	Project Description
FY2018	PEG Fees	\$1,000,000	Upgrade City Council Chambers audiovisual equipment and control room
FY2019	PEG Fees	\$850,000	Upgrade cameras in City Council Chambers
FY2020	PEG Fees	\$750,000	Upgrade screens and monitors for Council Chambers and Conference Room
FY2021	PEG Fees	\$1,800,000	Council Chambers upgrades for new Councilmembers technology needs
FY2022	PEG Fees	\$850,000	Upgrade equipment in satellite vans
		\$5,250,000	Total 5-year CIP

FY2018 - The Audiovisual equipment in the City Council Chambers was installed in 2009. An upgrade of this equipment will be necessary in FY2018 to keep up with technological advancements.

FY2019 - The cameras in the City Council Chambers were installed in 2014. An upgrade of this equipment will be necessary in FY2019 to keep up with technology upgrades.

FY2020 - In anticipation of adding two new Councilmembers in 2023, an upgrade the monitors

and technology at each Council seat in Chambers will be necessary.

FY2021 - Continue Council Chambers upgrades for new Councilmembers.

FY2022 - Upgrade the equipment in the satellite vans in FY2022 to keep up with technology improvement.

PAST ACCOMPLISHMENTS

During the past few years, the department has:

- Converted all technology to accommodate high definition
- Updated sets to accommodate new programming
- Added a green screen to allow for more special effects
- Invested in new field cameras for the student internship we are piloting with FWISD interns
- Installed programming to allow for remote voting/participation for Council members

OVERVIEW

The Fort Worth Fire Department (FWFD) currently provides emergency response services from 42 fire stations with a 43rd station expected to open in November 2017 near Spinks Airport (Fire Station 42). FWFD also has 13 facilities from which it operates the following support functions: Training (2), Vehicle Services & Supply (4), Arson & Bomb Investigations, Bomb Range, Communications, Air/Self-Contained Breathing Apparatus Shop, and Administration. Additionally, three FWFD units are housed in shared City facilities – Joint Emergency Operations Center (JEOC) in the Zipper building downtown; Backup emergency communications underneath W. 10th Street downtown, and the Bureau of Fire Prevention Inspections unit in City Hall, Lower Level.

Driving the need for new or expanded FWFD facility projects in the future are the following factors:

- The continued geographic and population growth of the city.
- The need to begin replacing or expanding older, smaller fire stations built in the 1960's and early-1970's that are becoming functionally inadequate as well as a maintenance burden after 40-50 years in operation.
- The opportunity to “build-out” shell space available at the new Public Safety Training Center Complex to further expand training capabilities and to relocate other FWFD units to create operational efficiencies.
- The need to relocate and expand the Joint Emergency Operations Center (JEOC).

FACILITIES

Current Fire Stations

The map in the appendix details the location and type of Fort Worth's current 42 fire stations. A single company has a daily four-person staff with one fire apparatus. A double company has a daily eight-person staff with two fire apparatus.

Current Funded Projects Underway

- New Fire Station 42 in far south Fort Worth
- New Fire Station 43 in far west Fort Worth

The City of Fort Worth's 2014 Bond Program included a proposition dedicated to Fire Safety Improvements – which was approved. Fire Station 42 is under construction in far south Fort Worth (near Spinks Airport) and is expected to open in November 2017. Fire Station 43 will be constructed in far west Fort Worth near the Walsh Ranch and Lost Creek developments. Both are being implemented in response to the city's expanding geographic area and population growth areas in the far south and far west.

FACILITY RECOMMENDATIONS 2018-2022

The following summarizes the department's facility-related recommendations over the course of the next five years:

New Fire Station Recommendations

- Construct a new fire station in the far north where response times lag national standards as part of the 2018 Bond Program.
- Secure property and eventually construct a new fire station along the Chisolm Trail Parkway corridor in southwest Fort Worth when capital funding is identified.

Response time maps continue to highlight an area in the far north near the US 287/IH-35W split in which

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emergency response times lag national standards. Therefore, an additional fire station in this area has been proposed as part of the 2018 bond program.

As the Chisolm Trail Parkway spurs development to the southwest, it is anticipated that an additional fire station will eventually be needed along this corridor. Developments that have been announced include a new Tarleton State University campus as well as numerous retail, commercial, and residential developments. Therefore, property needs to be secured as soon as possible so that a replacement station can be constructed as part of the next bond program in 2022 or 2023.

Replacement Recommendations

- Replace Fire Station 26 due to significant structural issues and other age-related maintenance challenges as part of the 2018 Bond Program.
- Replace Fire Station 37, built in 1998 as a temporary facility, when capital funding is identified.
- Purchase vacant property located adjacent to Fire Station 16 and construct larger facility when capital funding is identified.

The age of the existing 42 fire stations varies greatly. The oldest facility was constructed in 1923 and the newest in 2015. Most facilities are in fair or good condition; however, there are two recommended for replacement within this five year period (Fire Stations 16, 26 and 37). Several others that have been in service between 45-50 years are recommended for replacement within the next 15 years.

The replacement of Fire Station 26 has been included in the proposed 2018 Bond Program that is expected to go before voters in May 2018. Fire Station 37 was constructed in 1998 as a temporary

station inside a modular building structure. This station along with Fire Station 16 is also on the 5-year plan for replacement, but both would most likely be funded as part of the next bond program in 2022 or 2023. In the case of Fire Station 16, there is vacant property immediately adjacent to this facility that the department recommends be purchased as soon as feasible so that a larger facility can be constructed when funding is available for replacement.

Public Safety Training Complex

In April 2015, the Fire Department relocated its Training and Administration Divisions to the new Bob Bolen Public Safety Training Complex (PSTC). This new campus greatly expands training capacities and includes a new burn tower and dive rescue training facilities. Also added to the campus was the relocation of Fire Station 17 which further enhances training opportunities within a working fire station environment.

The Fire Training portion of the complex was constructed with shell space designed to allow for the future relocation of other Fire Department functions to maximize operational efficiencies.

PSTC Build-Out Recommendation

Renovate PSTC shell space to allow for the relocation of additional Fire Department functions to improve operational efficiencies and for the creation of a new training simulation center. Funding constraints prevented the PSTC from being fully built-out during the first phase of construction. Plans are being developed to build-out the shell space when funding is identified. The following list of current and/or new activities have been identified as optimal utilization of the shell space:

- Secure Primary Emergency Operations Center (relocation)

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- Simulation Center for various training programs such as ICS Incident and Fire Apparatus Driving
- Supply Warehouse (relocation)
- Indoor Physical Fitness Testing Center
- Wellness Facility
- Arson and Bomb Evidence Storage Warehouse (relocation)
- Indoor Response Trailer and High Value Asset Storage
- Personal Protection Equipment Repair and Cleaning Center (relocation)
- Minor Repair Shop (relocation)
- Shelter Materials and OEM Storage (relocation)
- Secondary Utility/Light and Air Response Station

- Fire Station 22
- Fire Station 21
- Fire Station 40

Replacement of Fire Stations 44 and 25 - Fire Station 44 is dedicated to Meacham Airport and located on airport property. Fire Station 25 is located just outside airport property and services the neighboring community. Both stations are in need of replacement due to structural damage to the walls and floors. Replacing these two stations with one joint ARFF station is recommended.

Reserve Apparatus Building – A reserve building to house reserve Fire apparatus is needed. Currently, reserve apparatus are being parked outdoors. To avoid damage caused by exposure to weather, an indoor facility is recommended. (Owned property adjacent to Fire Station 5 could be utilized as a site)

Bomb Range – A new facility dedicated to the unique training functions of the department's arson and bomb units is recommended.

New Fire Stations - One or two more fire stations in far west Fort Worth as Walsh Ranch and other significant development is anticipated to occur.

LONGER-RANGE FACILITY PLANS 2022-2032

Looking beyond the 5-year window upon which this master plan is focused, the department has identified the following list of project recommendations for the next 10 year period (2022 – 2032). Projects to replace aging facilities are currently justified; however, funding constraints will require a more deliberate, phased-in approach.

Replacement of Aging Facilities - Several smaller fire stations constructed in the 1960's and early-1970's are becoming functionally inadequate as well as a maintenance burden after 40-50 years in operation. The following stations are in the next wave of recommended replacements:

- Fire Station 4
- Fire Station 28
- Fire Station 15

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Facility Capital Projects Included in Property Management's 5-Year CIP

Project Name	Approx. Cost	Short Description	FY2018	FY2019	FY2020	FY2021	FY2022
New Fire Station in North Fort Worth near US 287 and IH-35W	\$ 7,800,000	Due to existing response time challenges in this growing sector of the city, a new fire station is recommended to the west of I-35/287 intersection (to include new fire apparatus).	\$ 7,800,000				
Replace Fire Station 26	\$ 6,140,000	Due to significant structural issues and other age-related maintenance challenges, replacement of this station is recommended.	\$ 6,140,000				
TOTALS	\$ 13,940,000		\$ 13,940,000	\$ -	\$ -	\$ -	\$ -

*Does not include funded, current in-process projects (new Fire Stations 42 & 43)

Unfunded 5-Year Facility Capital Needs

Project Name	Approx. Cost	Short Description	FY2018	FY2019	FY2020	FY2021	FY2022
Build-Out Shell Space at Public Safety Training Complex	\$ 12,000,000	New Public Safety Training Center Complex was built with shell space for future expansion allowing for enhanced training and relocation of several existing activities to create operational efficiencies.		\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000
New Fire Station Along Chisolm Trail Parkway in SW Fort Worth	\$ 8,000,000	Because of significant growth expected to occur along the SW corridor due to the Chisolm Trail Parkway completion, a new fire station is recommended (to include new fire apparatus).					\$ 8,000,000
Replace Fire Station 37	\$ 8,000,000	Built in 1998 as a temporary facility, a permanent structure is needed.					\$ 8,000,000
Replace Fire Station 16	\$ 8,000,000	Fire Station 16 is a small, aging structure that will require replacement. Purchasing vacant property adjacent to this station will allow for a larger structure to be built when funding for the station replacement is identified.					\$ 8,000,000
TOTALS	\$ 36,000,000		\$ -	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 27,000,000

CAPITAL PLAN SUMMARY

This Capital Master Plan details the department's capital purchase requirements for the next five years to be utilized in the development of funding plans. The following summarizes the department's capital purchase needs, some are funded in the 5-year plan while others are unfunded:

- Continued implementation of annual Fire Apparatus Replacement Plan at a cost of

approximately \$4.5 million to \$5 million annually.

- Replacement of Fire Station Alerting System at 42 fire stations at a cumulative cost of approximately \$2.1 million.
- New Fire Apparatus for the new fire station 43 at a cost of approximately \$1 million.

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- The encryption of the City’s outdoor warning sirens - approximately \$700,000.
- The expansion of outdoor warning siren system to include 10 additional sirens and installation of drivers for various pole locations throughout the city at a cost of approximately \$350,000 between 2018 and 2022.
- Creation of a simulation lab for use at the Bob Bolen Public Safety Training Complex to include fire apparatus driving, incident command and other training programs at a cost of approximately \$500,000.

(This list does not include vehicle replacement needs funded through the VERF)

sirens. It is expected that this project will be funded as part of the FY2018 IT Capital Plan.

- Outdoor Warning Siren System Expansion & Drivers - \$100,000. This project will provide additional sirens in areas currently not covered. The installation of drivers on some sirens will also extend the reach of sirens to cover more territory. It is expected that this project will be funded as part of the FY2018 IT Capital Plan.
- Mobile Data Computer Replacement - \$175,000. Due to the age of the existing MDC fleet, the ITS Department is funding a replacement program between FY2018 and FY20 at \$175,000 annually. This will result in replacing the old Motorola and Getac MDC’s that are more than 5 years old and past the timeframe where the manufacturer provides support and maintenance services.

**Capital Purchase Requirements by Year
FY2018**

- Continued implementation of annual fire apparatus replacement plan - \$4,591,000. The FWFD apparatus replacement plan began in 1999 and is designed to provide consistent, scheduled replacement of front-line emergency response apparatus to avoid crisis replacement that would require emergency funding and to maintain a safe and efficient apparatus fleet. FWFD has 117 fire apparatus with a front-line life cycle of 10-12 years and an additional 5-8 years as a reserve apparatus. Funding is proposed for FY2018 utilizing equipment tax notes.
- Outdoor Warning System Encryption & P25 Radios - \$700,000. Due to cyber-security risks, encryption has been recommended to ensure the integrity of the system, which consists of 153

- Additional Emergency Radios for ARFF and BFP - \$92,500. Additional emergency radios are expected to be funded as part of the FY2018 IT Capital Plan to outfit personnel within the Bureau of Fire Prevention (BFP) as well as Aircraft Rescue Fire Fighting (ARFF) personnel.
- Additional WorkStation at Fire Stations - \$65,000. Each fire station will be provided with a second computer to enable personnel to complete continuing education (CE’s) requirements, FireHouse reports, etc. It is expected that this project will be funded as part of the FY2018 IT Capital Plan.
- Media Server Solution - \$50,000. This project will provide additional server storage space to accommodate pictures, videos, and other files

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that are produced for purposes such as training or maintaining incident records. It is expected that this project will be funded as part of the FY2018 IT Capital Plan.

- Peoplesoft/Telestaff Interface (2-way) - \$50,000. This project would create an interface between the City's timekeeping system (Peoplesoft) and the Fire Department's staffing software (Telestaff) to improve efficiency of the timekeeping process and ensure consistency between the two systems. It is expected that this project will be funded as part of the FY2018 IT Capital Plan.

FY2019

- Continued implementation of annual fire apparatus replacement plan - \$5,060,000.
- New fire apparatus for new fire station 43 – \$993,798. Located in far west Fort Worth, Fire Station 43 is scheduled to be in service in late 2019 or early 2020. The purchase of one Engine (\$798,221) and one brush truck (\$195,577) is required for the station to be fully operational.
- Outdoor Warning Siren System Expansion & Drivers - \$100,000. This project will provide additional sirens in areas currently not covered. The installation of drivers on some sirens will also extend the reach of sirens to cover more territory. It is expected that this project will be funded as part of the IT Capital Plan.
- Mobile Data Computer Replacement - \$175,000. Due to the age of the existing MDC fleet, the ITS Department is funding a replacement program between FY2018 and FY2020 at \$175,000 annually.

- Replacement of Fire Station Alerting System at 42 fire stations – approximately \$2,100,000. Due to aging technologies and maintenance challenges, the emergency alerting system at every fire station requires replacement. This replacement could be phased in at a cost of \$700,000/year between FY2019 through FY2021.
- Creation of simulation lab for use at the Bob Bolen Public Safety Training Complex to include purchase of a fire apparatus driving simulator, incident command and other training – approximately \$500,000. The new Public Safety Training Complex can support a variety of enhanced training tools. An identified departmental training need is expanded fire apparatus driving training in a simulation environment along with incident command training using multiple, real-world scenarios.
- Migrate to new Records Management System (RMS) approximately \$250,000 annually. The current RMS (FireHouse) is almost 15 years old and is based on a platform that is no longer supported. Replacing it would enable a new system to be up to date with the latest RMS technologies. This could be phased in at a cost of \$250,000/year between FY2019 through FY2022.
- Various Software Initiatives – Cost to be determined. This project involves the creation or updating of several applications including replacement of the department's eOvertime system along with development of several new applications including Incident Command, Pre-Incident Planning, AVL Replay Application, RMS/GIS Incident Data Integration, and

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Fire

integration of Fire Department/Water Department Hydrant Data.

additional sirens in areas currently not covered. The installation of drivers on some sirens will also extend the reach of sirens to cover more territory. It is expected that this project will be funded as part of the IT Capital Plan.

FY2020

- Continued implementation of annual fire apparatus replacement plan - \$5,000,000.
- Outdoor Warning Siren System Expansion & Drivers - \$100,000. This project will provide additional sirens in areas currently not covered. The installation of drivers on some sirens will also extend the reach of sirens to cover more territory. It is expected that this project will be funded as part of the IT Capital Plan.
- Mobile Data Computer Replacement - \$175,000. Due to the age of the existing MDC fleet, the ITS Department is funding a replacement program between FY2018 and FY2020 at \$175,000 annually.
- Replacement of Fire Station Alerting System at 42 fire stations. This replacement could be phased in at a cost of \$700,000/year between FY2019 through FY2021.
- Migrate to new Records Management System (RMS) – approximately \$250,000 annually. This could be phased in at a cost of \$250,000/year between FY2019 through FY2022.

- Replacement of Fire Station Alerting System at 42 fire stations. This replacement could be phased in at a cost of \$700,000/year between FY2019 through FY2021.
- Migrate to new Records Management System (RMS) – approximately \$250,000 annually. This could be phased in at a cost of \$250,000/year between FY2019 through FY2022.

FY2022

- Migrate to new Records Management System (RMS) – approximately \$250,000 annually. This could be phased in at a cost of \$250,000/year between FY2019 through FY2022.

FY2021

- Continued implementation of annual fire apparatus replacement plan - \$5,122,000.
- Outdoor Warning Siren System Expansion & Drivers - \$50,000. This project will provide

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Fire

5-Year Vehicle CIP Summary

Project Name	Approx. Cost	Description	FY2018	FY2019	FY2020	FY2021	FY2022
Annual Fire Apparatus Replacement Plan	\$ 25,025,000	Previously Equipment Note Funded - Funded using debt mechanism in FY16. Long term funding undetermined.	\$ 4,591,000	\$ 5,060,000	\$ 4,939,000	\$ 5,122,000	\$ 5,313,000
New Apparatus for Fire Station 43	\$ 1,515,000	Two fire apparatus (one engine and one brush truck)		\$ 1,515,000			
Total	\$ 26,540,000		\$ 4,591,000	\$ 6,575,000	\$ 4,939,000	\$ 5,122,000	\$ 5,313,000

Technology Capital Projects Included in the IT 5-Year CIP

Project Name	Approx. Cost	Description	FY2018	FY2019	FY2020	FY2021	FY2022
Additional Emergency Radios for BFP and ARFF	\$ 92,500	Purchase emergency radios for personnel in the Bureau of Fire Prevention and the Aircraft Rescue Fire Fighting group.	\$ 92,500				
Various software and hardware enhancements	\$ 200,000	This project includes additional work stations at Fire Stations, development of an interface between Peoplesoft and Telestaff staffing software, additional server space for storing media files, and other software applications.	\$ 165,000		\$ 35,000		
Encrypting Warning Siren System	\$ 700,000	Due to security risks, encryption recommended - may be able to identify grant funding source.	\$ 700,000				
Outdoor Warning Siren System Expansion	\$ 350,000	The expansion of outdoor warning siren system to include 10 additional sirens and protective barriers for vulnerable siren pole locations throughout the city.	\$ 100,000	\$ 100,000	\$ 100,000	\$ 50,000	
Mobile Data Computer Replacement	\$ 525,000	The current MDC devices are past the timeframe where the manufacturer provides support and maintenance services. This will result in replacing the old Motorola and Getac MDC's that are more than 5 years old.	\$ 175,000	\$ 175,000	\$ 175,000		
TOTALS	\$ 1,867,500		\$ 1,232,500	\$ 275,000	\$ 310,000	\$ 50,000	\$ -

Unfunded 5-Year Technology Capital Needs

Project Name	Approx. Cost	Description	FY2018	FY2019	FY2020	FY2021	FY2022
Replace Existing Fire Station Alerting System	\$ 2,100,000	Existing fire station alarm/alerting system is antiquated and requiring replacement/upgrade at 42 fire stations. Financing/funding could be identified utilizing Tarrant County 911 reimbursement funds of approximately \$126,000 annually.		\$ 700,000	\$ 700,000	\$ 700,000	
New Record Management System (RMS)	\$ 1,000,000	The current RMS (FireHouse) is almost 15 years old and is based on a platform that is no longer supported. Replacing it would enable a new system to be up to date with the latest RMS technologies		\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Fire Training Simulation Lab	\$ 500,000	Fire Apparatus Driver Training, Incident Command Structure Training, and other emergency response training.		\$ 500,000			
TOTALS	\$ 3,600,000		\$ -	\$ 1,450,000	\$ 950,000	\$ 950,000	\$ 250,000

OVERVIEW

The Fort Worth IT Solutions Department strives to contribute to the City's strategic goals, mission and vision by implementing innovative state-of-the-art solutions. One of the primary roles of the department is to guide the use of technology for the City by listening to the business and operational needs of departments and implement enterprise solutions that will benefit the whole organization.

The department is operated as an internal service fund collecting revenues primarily from City Departments. These revenues are annual allocations based on an annual inventory of each department's telephones, radios, mobile data computers (MDCs) installed in Public Safety vehicles, Approved Positions (AP), and computers. Additionally, IT Solutions Department employee salary and benefits are allocated to departments in arrears. External customers are organizations who have been approved to use the City's Regional Public Safety Radio Communication System.

FACILITIES

- Zipper Building hosts the majority of the department staff. Plans are being considered to sell this facility in the 2020-2025 time frame.
- Holly Water Plant hosts the staff supporting the Public Safety Radio Communication System.
- Cable TV Offices, Main Library and James Avenue hosts Desktop Deployment Staff and the warehouse. Operating this team from two locations is inefficient and staff has begun researching alternatives.
- City Hall, the primary Data Center operates from City Hall. A facility upgrade plan is being developed for the City Hall Data Center. The

ERP Support Team moved into renovated space in the Lower Level of City Hall with the expiration of the commercial office space lease in January 2017.

- Eagle Mountain Water Plant hosts the Disaster Recovery Site for the City Hall Data Center. The current focus at the Disaster Recovery Site is acquisition of necessary equipment to provide complete reliable back up resources if needed.
- The Public Safety Radio System includes seven towers with associated facilities. Four of these locations are City owned and three of them are leased. The majority of these facilities were upgraded during the recent radio project.
- Gordon Swift Building will have renovations done on the fourth and fifth floors to host the Help Desk and Desktop Support Teams to accommodate IT Solutions staff increases.

CAPITAL IMPROVEMENT STRATEGY

The development and implementation of the 5-year Capital Improvement Plan ensures that technology is upgraded and maintained in order to meet the needs of the departments and citizens. In addition, the City intends to leverage new technology to improve efficiency and meet the business needs of the organization. The capital planning process allows IT Solutions and user departments to identify needs that are coordinated, prioritized and presented to the City leadership during the budget / capital planning process for approval. IT Solutions also communicates with departments through the Quarterly Business Reviews initiated in 2015 as well as periodic technology assessments. Projects

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are scored on Strategic Goal contribution and Business Risk.

CAPITAL REVENUE SOURCES

The City of Fort Worth is developing a robust approach for funding capital improvements including issuing debt instruments and cash-funding projects. Funding for specific projects is determined by the planning process and depends on a number of details including cost, scope, expected return on investment, and expected useful life of the project.

Debt Instruments

Over the past 10 years, the majority of the IT Enterprise Infrastructure and Major Project have

been funded from non-recurring sources such as bond programs, tax notes, grants, etc. Examples of these include the Radio Tower Replacement, Public Safety Radio Communication System Replacement and ERP Projects.

This debt is serviced by the General Fund, and in some cases the Crime Control and Prevention District. The department has also participated in the Tarrant County 9-1-1 Radio Assistance Program for the past four years, receiving re-imbursement for approved public safety radio communication system costs. These funds are used for Debt Service and IT capital investments

Major Projects in Past 10-years Funding Source

FY15	Network/Phone System Phase I	\$7,047,362	ITS Fund Balance, Gas Lease Revenues
FY15	Court Case Management System	\$1,960,276	Municipal Court Tech Fund
FY11	Public Safety Radio System	\$50,103,305	Tax Notes, ITS Fund Balance, CCPD, Grant
FY11	Microwave System	\$1,023,428	2004 Bond Program + (in lieu of tower replacement)
FY10	P25 Master Switch	\$1,700,000	ITS Fund Balance
FY10	ERP Phase II	\$53,464,751	Enterprise Funds, CO's
FY10	Rolling Hills Tower Replacement	\$1,824,929	2004 Bond Program +
FY08	ERP Phase I	\$24,109,179	Equipment Tax Notes
FY07	CAD System	\$6,840,000	Equipment Notes, General Fund
FY05	Western Comm Tower (Eagle Mtn)	\$5,200,000	CCPD & Certificates of Obligation
	Total	\$153,273,230	

Pay-Go

Beginning in FY2017, in order to provide better continuity and coordination of cash available primarily for Enterprise Infrastructure and Business Applications and Online Services, the City budget allocates the equivalent of ½ cent of property tax (estimated at \$2.6 million) to the capital plan to address IT capital needs. This will allow corporate planning and decision making regarding priorities

and initiatives. However, it will not totally eliminate the need for debt funding of large system replacements or new systems, but for systems like the network and phone system they can be refreshed on a phased basis with capital over time eliminating large one time capital expenditures.

Additionally, projects specifically for public safety will be supplemented by the Crime Control and

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Prevention District and Awarded Assets as appropriate.

Annually, any excess fund balance in IT Solutions will be evaluated to determine if rates charged to customer departments should be reduced in the future or if the funds should be transferred to the Capital Fund for proposed projects.

CATEGORIES

The major categories of the City's investments in technology include:

1. Computer Equipment – Funding to replace, upgrade or repair PCs and laptops and associated network devices. Beginning in FY2017 funding for this equipment was appropriated in a Computer Equipment Refresh Fund Managed by IT Solutions managed as part of the IT Capital Program with the goal of minimizing the year-to-year variance in funding levels and ensuring the required technology is managed efficiently and appropriately.

2. Enterprise Infrastructure – Funding to maintain and improve the City's core technical infrastructure. The computing environment is highly centralized leveraging a shared infrastructure. The shared infrastructure takes advantage of economies of scale and efficiencies of resource consolidation to provide cost effective computing for Departments. The major components of enterprise infrastructure include network equipment, servers, storage systems, backup and recovery systems, licensing for enterprise services, security hardware and software, database platform and specialty equipment.

3. Business Applications and Online Services – Funding to maintain and improve the City's software based information systems. These include citizen facing systems as well as enterprise wide systems for all departments as well as department specific systems. These systems are managed on a system upgrade schedule with major projects being identified as needed.

4. Major Projects and System Replacements – Funding to upgrade or replace major computer systems across departments or across the enterprise. The scope of the systems either benefit the entire organization or support large departmental operations that require significant investments in resources and time. In FY2017 major projects and system replacements that were initiated include: Customer Relationship Management System, Network/Phone System Replacement Phase 2, Financial Accounts Receivable/Billing System, and Hyperion Budget System.

LOOKING TO THE FUTURE

In the past three years, IT Solutions has significantly increased the speed to deliver new systems and the number of new/upgraded systems. In order to continue at this pace and to support the IT Capital Plan as well as operational requirements the City has initiated a reorganization of IT staff. Historically departments established IT positions as they identified requirements and supporting funding. This led to a decentralized, non-standardized, and inefficient approach to technology staffing. During FY2017, IT positions in seven departments were reviewed. Twenty-one positions were determined to be IT in nature will be transferred to the IT Solutions Department with the incumbent staff.

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5-YEAR CAPITAL PLAN SUMMARY

Project or Category	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Business Applications	\$2,165,402	\$1,024,713	\$1,327,947	\$1,722,677	\$1,789,403	\$8,030,142
Technology Infrastructure	\$6,633,463	\$4,426,107	\$4,132,741	\$3,953,678	\$3,332,415	\$22,478,404
Vehicles	\$100,000		\$100,000		\$100,000	\$300,000
Computer Refresh - General	\$1,262,728	\$1,275,355	\$1,288,109	\$1,300,990	\$1,314,000	\$6,441,182
Computer Refresh - Other Funds	\$730,520	\$737,825	\$745,203	\$752,655	\$760,182	\$3,726,385
Total Uses	\$10,892,113	\$7,464,000	\$7,594,000	\$7,730,000	\$7,296,000	\$40,976,113

Funding Sources	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Transfer From Crime Control and Prevention District for Information Technology Projects	\$3,287,593	\$2,209,000	\$2,209,000	\$2,209,000	\$1,609,000	\$11,523,593
Pay As You Go - General Fund	\$2,663,000	\$2,769,000	\$2,879,000	\$2,994,000	\$3,113,000	\$14,418,000
Fund Balance - Information Technology Systems Fund	\$2,598,272					\$2,598,272
Computer Refresh - General	\$1,262,728	\$1,275,000	\$1,288,000	\$1,301,000	\$1,314,000	\$6,440,728
Tarrant County 911 Assistance Program		\$500,000	\$500,000	\$500,000	\$500,000	\$2,000,000
Computer Refresh - Other Funds	\$730,520	\$711,000	\$718,000	\$726,000	\$733,000	\$3,618,520
Solid Waste	\$350,000					\$350,000
Total Sources	\$10,892,113	\$7,464,000	\$7,594,000	\$7,730,000	\$7,269,000	\$40,949,113

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5-YEAR CAPITAL PLAN DETAIL

Department Name	Project Name	Funding Source	Capital FY2018	Capital FY2019	Capital FY2020	Capital FY2021	Capital FY2022
Police	Mobile Data Computers	CCPD	\$1,500,000				
Enterprise	Computer Refresh - General	Refresh - Ger	\$1,262,728	\$1,275,355	\$1,288,109	\$1,300,990	\$1,314,000
Police	In-car (Taser contract - capital portion)	CCPD	\$1,176,100				
Enterprise	Computer Refresh - Other Funds	efresh - Othe	\$730,520	\$737,825	\$745,203	\$752,655	\$760,182
Fire	Outdoor Warning Sirens (New radios & Encryption)	IT PayGo	\$700,000				
Enterprise	AV Equipment City Wide (PARD \$100K & NSD \$57K plus some)	IT PayGo	\$396,000	\$375,000	\$375,000	\$200,000	\$200,000
TPW - Capital Delivery	Capital Project Delivery Tools	IT PayGo	\$350,000				
Municipal Court Services	Courtroom Audio Visual System	IT PayGo	\$337,500	\$225,000	\$225,000	\$112,500	
PARD	Facility Sound and Paging Equipment Replacements	IT PayGo	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
ITS	Unified Storage Platform Upgrade	IT PayGo	\$300,000	\$200,000	\$200,000	\$200,000	\$200,000
PARD	Business Applications (Asset Mgmt System /Work Order Tracking for PAC)	IT PayGo	\$250,000	\$50,000		\$100,000	
Code Compliance	Code Enforcement - Code Op	IT PayGo	\$250,000				
Code Compliance	Solid Waste - Routing Program	Solid Waste	\$250,000				
Police	LPRs	CCPD	\$180,000				
Fire	Mobile Data Computers - Fire	IT PayGo	\$175,000	\$175,000	\$175,000		
ITS	Google Search Appliance Replacement	IT PayGo	\$150,000				
PARD	Irrinet System Upgrade	IT PayGo	\$110,000	\$110,000	\$110,000		
Police	ESU Small Unmanned Aerial Systems (2)	CCPD	\$110,000				
Police	Additional Isilon Storage	CCPD	\$109,593				
Enterprise	Digital Signage (NSD & Fire requested)	IT PayGo	\$100,000	\$100,000	\$100,000	\$75,000	\$50,000
Fire	Outdoor Warning Siren System Expansion & Drivers	IT PayGo	\$100,000	\$100,000	\$100,000	\$50,000	
ITS	Unidesk for Horizon View	IT PayGo	\$100,000	\$100,000	\$100,000		
Code Compliance	Code - Animal Care & Control	IT PayGo	\$100,000				
Code Compliance	Code Compliance - One Button	Solid Waste	\$100,000				
ITS	Vehicles	IT PayGo	\$100,000		\$100,000		\$100,000
Fire	Additional Emergency Radios for ARFF and BFP	IT PayGo	\$92,500				
ITS	Broadband Antenna Tracking System Site	IT PayGo	\$90,000				
ITS	Laserfiche Additional Licenses	IT PayGo	\$80,000	\$80,000	\$80,000		
Police	Replace Pen-Link Hardware and Software	CCPD	\$80,000				
Police	Digital Forensics Server (Replacement of current storage/working server)	CCPD	\$80,000				
TPW - Business Support	File room digitization	IT PayGo	\$80,000				
Code Compliance	Customer Care - Voice Analytics Software	IT PayGo	\$75,000				
Economic Development	Economic Development Client and Incentive Management System	IT PayGo	\$75,000				
ITS	ADManager Plus from ManageEngine software	IT PayGo	\$75,000				
Economic Development	B2G Now (diversity management system - cloud hosted)	IT PayGo	\$73,000				
Fire	Additional workstation at each fire station	IT PayGo	\$65,000				
ITS	Wifi Access Points Upgrade & Growth	IT PayGo	\$60,000	\$50,000	\$60,000		
ITS	Business Apps Refresh	IT PayGo	\$51,386	\$358,213	\$372,947	\$872,677	\$1,289,403
FMS	Blackline	IT PayGo	\$51,000	\$51,500	\$25,000		
PARD	Upgrade Community Centers Public Lab's Technology	IT PayGo	\$50,000	\$0	\$0	\$0	\$0
Fire	Media Server solution	IT PayGo	\$50,000		\$35,000		
Fire	Peoplesoft/Telestaff Interface (2-way)	IT PayGo	\$50,000				
ITS	SiteMaster Communications Test Set	IT PayGo	\$50,000				
FMS	Enterprise Asset Mgt Interface to PeopleSoft	IT PayGo	\$35,000				

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ITS	Tower site UPS and microwave battery refresh	IT PayGo	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
ITS	Data Center Facility Upgrade (ATS Bypass for Generator)	IT PayGo	\$30,000				
ITS	Annex requires maintenance/added storage capacity provided by a connex	IT PayGo	\$30,000				
ITS	Data Center Facility Upgrade (Install dampeners in City Hall Data Center)	IT PayGo	\$25,000				
ITS	Professional Services for implementing vPro technology	IT PayGo	\$25,000				
Police	Software - Analysis User Interface	CCPD	\$25,000				
Municipal Court Services	Motorola O3 Conversion for Trunking Radios	IT PayGo	\$22,800				
ITS	ClearPass	IT PayGo	\$20,000	\$30,000	\$30,000		
ITS	Badge access at Annex	IT PayGo	\$20,000				
NSD	Envisionware	IT PayGo	\$20,000				
Police	IA Pro for Early Intervention	CCPD	\$16,700				
ITS	Microwave Power Supply Rectifier Refresh	IT PayGo	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
ITS	Repaving parking lot at annex	IT PayGo	\$15,000				
ITS	Refresh of hard drive wiping equipment	IT PayGo	\$15,000				
NSD	Digital Marketing System	IT PayGo	\$11,640	\$5,000			
Municipal Court Services	Fund body camera program/data storage Evidence.com license w/1 yr	IT PayGo	\$10,620				
Municipal Court Services	2 High Capacity Batch Scanners	IT PayGo	\$10,550				
Police	Tactical Operations Mobile Fingerprint Scanners	CCPD	\$10,200				
Economic Development	Incentive Map Update	IT PayGo	\$10,000				
NSD	Charging Stations	IT PayGo	\$9,600				
Municipal Court Services	Queue Management System	IT PayGo	\$8,316				
ITS	Appleton connector replacement - Eagle Mountain	IT PayGo	\$8,000				
Municipal Court Services	Learning Management System	IT PayGo	\$3,360				
Municipal Court Services	4 Additional License Plater Readers	IT PayGo		\$22,000	\$22,000		
Police	Police Systems	CCPD		\$2,209,000	\$2,209,000	\$2,209,000	\$1,609,000
ITS	Diagostx Refresh	IT PayGo		\$485,107			
Perf & Budget	Business Analytics/Business Intelligence Tool	IT PayGo		\$250,000	\$250,000	\$250,000	
FMS	Sympro Investments Module	IT PayGo		\$70,000			
Fire	Supply Inventory Project	IT PayGo		\$60,000			
FMS	FINS Update	IT PayGo			\$500,000		
FMS	Payroll Assessment	IT PayGo				\$500,000	
FMS	Inventory System Review	IT PayGo					\$500,000
ITS	Aeroflex Refresh	IT PayGo			\$68,000		
ITS	Infrastructure	IT PayGo			\$78,741	\$762,178	\$928,415
Police	Predictive Analysis Software	CCPD					
Police	E-Citation	CCPD					
Police	Dashboards/Business Intelligence System	CCPD					
Police	Milestone Video Management Software	CCPD					
Police	Mideo Training Works Fingerprint Comparison Training Software	CCPD					
TOTAL			\$10,892,113	\$7,464,000	\$7,594,000	\$7,730,000	\$7,296,000

OVERVIEW

The Library Department welcomes and supports all people in their enjoyment of reading, recreational materials, and their pursuit of learning and information at sixteen libraries.

The department is operated through the general fund and receives additional operating funds from the Library Foundation and Friends of the Library.

The department is divided into two divisions: Public Service and System-Wide Support. The Public Services division is the first point of contact for residents providing services for books, movies and music. In addition, the library:

- Provides quality educational classes and programs
- Directly supports and provides leadership for the City of Fort Worth's education-related initiatives which support school readiness and reading at grade level by 3rd grade
- Collects, preserves, and maintains materials related to the City's history
- Bridges the digital and economic divides by providing computer and Wi-Fi access
- Maintains public spaces and establishes community commons

The System-Wide Services division provides the structure and systems needed to maintain library services. The division consists of five operational units: Administrative Services, Collection Management, Communications, Facilities Management, and Library Technology Support. Each of these units has a unique responsibility to support the system-wide delivery of library services.

FACILITIES

Following is a list of Library Facilities:

- Central Library which is located downtown in Council District 9 was built in 1978 and remodeled in 2000. A minor project was completed in FY2016 and the public bathrooms on the lower level were remodeled in FY2017. The library is 243,777 square feet and includes archives/genealogy and the administration staff. The library had a circulation in FY2016 of 444,247.
- BOLD (Butler Outreach Library Division) is located in the Butler Housing Community which is in Council District 8. This branch was opened in 1997 in one of the apartments in the complex. This satellite branch is 1,400 square feet and had a circulation in FY2016 of 16,956.
- COOL (Cavile Opportunity Outreach Library) is located in Cavile Place Public Housing Community which is in District 5. This branch was opened in 1994 in one of the apartments in the complex and was renovated in 2011. This satellite branch is 915 square feet and had a circulation in FY2016 was 13,826.
- Diamond Hill-Jarvis Library is located in Council District 2 and was built in 1989. A coating was placed on the roof in FY2016. Funds have been appropriated in FY2017 to replace the flooring. This library branch is 8,121 square feet and had a circulation in FY2016 of 96,371.
- East Berry Library is located in Council District 5 and was built in 1967 and remodeled in 2005. This branch library is 7,527 square feet and had a circulation in FY2016 of 118,865.

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- East Regional Library is located in Council District 4 and was built in 1996. Funds have been appropriated in FY2017 to replace the flooring. This branch library is 23,990 square feet and had a circulation in FY2016 of 270,062.
 - Ella Mae Shamblee Library is in Council District 8 and was built in 2008. This branch library is 13,445 square feet and had a circulation in FY2016 of 95,951.
 - eSkills Library and Job Center (originally the Meadowbrook Library) is in Council District 5 and was built in 1964 and was remodeled in 2011. A coating was placed on the roof in FY2016. This branch library is 5,045 square feet and had a circulation in FY2016 of 48,924.
 - Northside Library is in Council District 2 and was built in 1967 and remodeled in 2005. Renovation of the bathrooms is scheduled to start in FY2018. This branch library is 7,072 square feet and has a circulation in FY2016 of 94,492.
 - Northwest Library is in Council District 2 and was built in 2010. This branch library is 13,038 and had a circulation in FY2016 of 253,702.
 - Ridglea Library is in Council District 3 and was built in 1967 and remodeled in 2012. The roof was replaced in FY2016. This branch library is 9,585 square feet and had a circulation in FY2016 of 326,716.
 - Riverside Library is in Council District 9 and was built in 1967. Funds have been appropriated in FY2017 to replace the flooring. Renovation of the bathrooms is scheduled to start in FY2018. This branch library is 6,313 square feet and had a circulation in FY2016 of 100,806.
 - Seminary South Library is in Council District 9 and was built in 1967 and remodeled in 2006. This branch library is 6,834 square feet and had a circulation in FY2016 of 212,697
 - Southwest Regional Library is in Council District 3 and was built in 1987. Funds have been appropriated in FY2017 to replace the flooring. This branch library is 25,661 square feet and had a circulation in FY2016 of 643,670.
 - Summer Glen Library is in Council District 4 and was built in 2000. This branch library is 11,068 square feet and had a circulation in FY2016 of 464,468.
 - Wedgwood Library is in Council District 6 and was built in 1962 and remodeled in 2010. A coating was placed on the roof in FY2016. This branch library is 4,962 square feet and had a circulation in FY2016 of 196,849. This branch is recommended to be replaced in the 2018 Bond Package.
- ### **FUTURE FACILITIES**
- Construction began in September 2017 on the Golden Triangle Library located in far north Fort Worth. In FY2018, \$842,000 has been appropriated for furniture, fixtures and equipment.
 - The design phase for the Eastside Library will begin in the fall of 2017. This library will be designated as a children's library located in east

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Fort Worth. All funding for this library has been appropriated.

CAPITAL IMPROVEMENT STRATEGY

In 2011, the Library with help from consultants, conducted a facilities study. The study included an assessment of the physical condition of all library facilities, identifying standards for future library facilities, recommending sustainability goals, recommending alternative library services models, and benchmarking Fort Worth's facilities against peer libraries around the country. Using recommendations from the study, the Library works closely with Property Management to ensure the facilities are maintained and are in good repair.

renovation and repair of restrooms. Staff anticipates starting these critical infrastructure activities during FY2018. Funding for future facility repairs of this type are wholly dependent on flow of CDBG funds to the City. Prioritization of projects at various library facilities is revised as funds of this type become available.

2018 Capital Bond Project

The Library has proposed to Property Management a new library for south Fort Worth that would replace Wedgwood Library. Public engagement meetings presenting this proposed library along with other facilities and transportation and park system improvement initiatives are scheduled to occur through October 2017. The 2018 Bond elections are proposed for May 5, 2018. The funding source for this library will be future debt.

CAPITAL REVENUE SOURCES

Grant Funding

In June 2016, the City Council approved (M&C G-18760) planned receipt of over \$3,000,000 in Community Development Block Grant Funds (CDBG) and HOME Investment partnerships Program Grant Funds. \$850,000 was designated as Architectural Barrier Removal and ADA Accessibility Improvements at city facilities for community centers and libraries. The libraries are Northside and Riverside. Library staff will work closely with facilities management professionals to determine optimal use of this funding for the

5-YEAR CAPITAL PLAN SUMMARY

	Funding Source	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Golden Triangle Library FF&E	2018 PAYG	\$842,000	\$0	\$0	\$0	\$0	\$842,000

PAST ACCOMPLISHMENTS**FY2016 Library Projects with Property Management**

Project Description	Amount	Complete
Central Library Stop Valve	\$10,205	x
Ridglea Library Roof Replacement	\$202,522	x
Meadowbrook Library Roof Coating	\$4,900	x
Wedgwood Library Roof Coating	\$5,016	x
Diamond Hill Library Roof Coating	\$4,995	x
FY2016 Total Appropriation	\$227,638	

FY2017 Library Projects with Property Management

Project Description	Amount	Complete
Replace Flooring Southwest Regional Library	\$98,575	
Replace Flooring East Regional Library	\$117,075	
Replace Flooring Riverside Branch Library	28,075	
Replace Flooring Diamond Hill-Jarvis Branch Library	\$37,175	
Remodel Bathrooms Central Library	\$120,000	x
FY2017 Total Appropriation	\$400,900	

OVERVIEW

Created in 2015, the Neighborhood Services Department implements programs that promote economic independence, sustainable housing, and healthy successful neighborhoods. The partnerships that the Department develops with residents, businesses, non-profit, and government agencies enhance community development, social services and human capital development.

The goal of the Neighborhood Services Department is to enhance quality of life for residents by strengthening neighborhoods. Services are delivered through the following divisions: Neighborhood Development and Revitalization; Administration and Loan Services; Community Resources (formerly Community Services); Neighborhood Stabilization and Outreach; Compliance and Planning; and Rehabilitation and Construction Management.

The Housing and Neighborhood Development Division coordinates redevelopment projects and administers the Neighborhood Empowerment Zone (NEZ) program, as well as grant-funded and non-grant –funded affordable housing and community development projects.

The Administration and Loan Services Division oversees the Department’s budget, finance, and human resources functions while also administering affordable housing loans and the City’s homebuyer assistance programs (HAP).

The Community Resources Division (formerly Community Services) oversees seven of the City’s network of community centers and one CAP center. The centers provide recreational, leisure and essential human services. This division also delivers more than \$12 million in state and federal grant-funded social services to eligible households in Fort Worth and Tarrant County through the

Community Action Partners program.

The Neighborhood Stabilization and Outreach Division is dedicated to working with neighborhood to plan, coordinate, and promote resources to make neighborhoods more livable, address systemic neighborhood issues, and foster resident self-sufficiency. Staff also manages the Alleyway Maintenance Program and Neighborhood Stabilization and Improvement Program. This division also provides the community outreach that supports the various programs that the Department operates and manages.

The Rehabilitation and Construction Division delivers home repair services to low income homeowners through the Priority Repair, Weatherization, Cowtown Brush-up and Lead Safe programs.

The Compliance and Planning Division ensures that the City continues to receive approximately \$20 million in state and federal grants annually, though preparing grant proposals and plans, complying with HUD grant reporting requirements, and enforcing regulatory compliance through training and monitoring activities.

CAPITAL IMPROVEMENT STRATEGY

The development and implementation of the 5-year Capital Improvement Plan serves to define and prioritize CIP projects over the long-term. It identifies essential needs but also those initiatives which optimize operational capacity, enhance safety, and strengthen and enhance the neighborhoods within Fort Worth. It identifies upgrades and maintenance required in order to meet the needs of facility centers and achieve the Department’s mission to provide high-quality, cost effective facilities to meet the community needs of

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Fort Worth. This long-range plan provides Neighborhood Services Department, and the City, a path to support the overall neighborhood needs and services.

Neighborhood Improvement Strategy (NIS) is a program aimed at using data about neighborhoods to make communities more vital and raise the quality of life. City Council approved \$2.56 million to pilot the Neighborhood Improvement Strategy program in the Cavile Place/Stop Six area for FY2017.

The FY2018-2022 CIP for the Neighborhood Services Department reflects the City's sustained commitment to the use of capital funding to support the NIS. While the specific improvements will be tailored to the need in each neighborhood, activity supported by these funds may include substandard building abatement, urban forestry to improve roadside conditions, streetlights and sidewalk installation, park facility improvements, park security lighting and security camera installation. The FY2018 allocation will be \$2,767,000, with estimated recurring allocations growth of 4% per year during FY2019-2022. The FY2018-2022 allocation total will be \$14,982,000.

Alleyway Maintenance Program will provide capital improvement above the cleanup and ground maintenance of the City's alleyways contract. FY2017 allocation was \$84,100 and \$87,000 will be allocated from the FY2018 Pay-Go funding. FY2019-2022 will be funded with recurring allocations growth of 4% per year. The FY2018-2022 allocation total will be \$465,000.

Americans with Disability Act (ADA) Improvements of Public Facilities includes improvements and repairs at community centers and

libraries that were identified in February 2015. Facilities currently do not meet 100% compliance of Section 504 of the Rehabilitation Act of 1973 and 24 CFR Part 8 of HUD regulations. Improvements will include ramps, improved access to parking lots, entryway improvements, restroom accessibility, etc. Northside Community Center will receive PY2016 CDBG funding of \$590,000 and Worth Height Community Center will be funded with PY2017 CDBG funding of \$579,255. Facility improvements are managed by Property Management.

Park improvements managed under the Park and Recreation Department will receive HUD allocation funding. These park improvements include design, purchase and installation of playground equipment and improvements including but not limited to demolition and site preparation at Diamond Hill Park, Sagamore Hills Park, Anderson Park, and Carter Park. Delga Park improvement will include design and installation of a pedestrian trail and improvements including but not limited to demolition, site preparation, purchase of materials, and amenities such as benches. Carter Park improvement will also include design and reconstruction of road improvements to Carter Park Drive. The above park improvements will be funded by CDBG in the amount of \$1,532,000. In FY2018, Bunche Park Improvement of \$500,000 will be partially funded with CDBG funds.

Reconstruction of Neighborhood Streets Project is managed by TPW Infrastructure Services to improve neighborhood streets with CDBG funding in the amount of \$1,336,521

FACILITIES

Facility improvements are managed by Property Management with the funded improvements for FY18-22 included in Property Management's 5-year CIP.

Andrew "Doc" Session Community Center The facility once housed a John Peter Smith Clinic and requires renovation of 1,430 SF of space to make restrooms ADA compliant and to create CAP office space for staff and expand the wellness area to increase fitness access to maintain healthy lifestyles at an estimated cost of \$429,000 with future Pay-Go funding.

Como Community Center The 2014 Bond Program Proposition 2 authorized this location to construct a new center in the amount of \$5,300,000. The anticipated capital cost will be \$10 million. Additional surplus funding of \$1,700,000 was added in FY2016, and \$300,000 will be earmarked from Park Dedication Fees. An estimated amount of \$1,700,000 will be raised from private donations. Furniture, Fixture & Equipment (FF&E) will equip this 43,000 square foot facility at an anticipated capital spending of \$1,150,250 with FY2019 Pay-Go funding.

Martin Luther King Jr. Community Center The MLK Jr. Community Center was the second community center built in Fort Worth and has been serving the eastern side of the city since 1973. Future Pay-Go estimated in the amount of \$515,000 will renovate approximately 1,500 SF that will expand the availability of activity rooms that can be used for rentals, meetings, and classes.

Northside Community Center which is more than 30,000 square feet has been recommended for

renovation in the 2018 Bond Referenda in the amount of \$5,801,400. This facility is one of the largest in the community center inventory and receives the highest attendance of any facility. Approximately 19,338 square feet need significant renovation to bring the building up to ADA standards and increase space efficiency.

North Tri-Ethic Community Center The center is currently set to receive \$400,000 in FY2017 Pay-Go funds to make renovations to the vacated clinic space of 1,650 SF. The facility could potentially serve more people by providing a place for fitness classes, workout sessions and additional classes offered through community partnerships. Additional funds in the amount of \$85,000 are required to capture remaining underutilized space and added FF&E costs.

Southside Community Center The facility is currently set to receive \$100,000 in FY2017 Pay-Go funds to address structural damage and renovate former daycare and clinic space. Recommendation is to reallocate the FY2107 Pay-Go from Fellowship Corner Community Center of \$350,000 since additional funding will be necessary to renovate Southside Community Center into a facility dedicated to serving older adults. Additional \$400,000 of HUD funding will supplement renovation costing for a total renovation cost of \$850,000.

Worth Height Community Center Remodel of approximately 1,325 SF of space to include kitchen, public showers and restrooms, at an estimated cost of \$50,000 of FY2018 Pay-Go. These improvements are required to bring facility up to ADA compliance and make functional for temporary sheltering.

CAPITAL REVENUE SOURCES**General Debt Service Funds (Bond and Certificate of Obligations)**

Debt financing includes general obligation bonds, certificates of obligation, lease/purchase agreements, certificates of participation, commercial paper, tax notes, and other obligations permitted to be issued or incurred under Texas law. Examples include 2014 Bond, 2013 Certificates of Obligation, 2004 Bond.

General Capital Projects Fund

The General Capital Projects Fund is used to accumulate reimbursements from other governmental agencies for the prior purchase of real property assets, proceeds from an occasional sale of surplus real property as approved by Council, bonuses and royalties received from gas leases (as described in the City's Financial Management Policy Statements "Revenues", Section I., Revenues from Gas Leases and Pipeline Agreements), and transfers from the General Fund unassigned fund balance. This fund shall only be used to pay for non-routine and one-time expenditures such as land and building purchases, construction and maintenance projects with at least a ten (10) year life, feasibility, design and engineering studies related to such projects, capital equipment and vehicles with at least a ten (10) year life, and technology improvements with at least a five (5) year life.

Specially Funded Projects Fund

The Specially Funded Projects Fund is used to account for revenue, received from various organizations and individuals for leases, license agreements and fees, and do not have restrictions on the type of improvements to be constructed. Examples include Park Dedication Fees.

Grants (Federal, State, Local)

Grant funds are funds that the City receives through jurisdiction entitlement or an application process and are awarded for use on a specific project as described in the application process. Grants may be awarded by federal, state and private nonprofit foundations and typically are reimbursable. Examples of grants that have been awarded are: Federally funded (Community Development Block Grant (CDBG); Home Investment Partnerships Grant (HOME); Emergency Shelter Grant (ESG); and Housing Opportunities with Persons with AIDS (HOPWA) and Community Service Block Grants (CSBG); State funded (Comprehensive Energy Assistance Program (CEAP); Texas Veterans Commission; and Locally funded (Volunteer Income Tax Assistance Program).

5-YEAR CAPITAL PLAN SUMMARY

Project Descriptions	FY2018	FY2019	FY2020	FY2021	FY2022	Total
Neighborhood Improvement Strategy	\$2,767,000	\$2,877,000	\$2,992,000	\$3,111,000	\$3,235,000	\$14,982,000
Alleyway Maintenance	\$87,000	\$90,000	\$93,000	\$96,000	\$99,000	\$465,000
TOTALS	\$2,854,000	\$2,967,000	\$3,085,000	\$3,207,000	\$3,334,000	\$15,447,000

*Funding Source Pay-As-You-Go (Pay-Go)

OVERVIEW

The Park and Recreation Department's mission is to enrich the lives of our citizens through the stewardship of our natural and developed resources and the responsive provision of quality services and recreational opportunities. Throughout the history of the development of the Fort Worth park system, the Department has effectively anticipated and responded to the park, recreation and open space needs of the community.

History

The first parks master plan was drafted by Landscape Architect, George Kessler, in 1909. The intent and spirit of Kessler's original Park Plan for the City of Fort Worth served as the basis for the implementation of major park facilities that now serve as the core of Fort Worth's park, recreation and open space system. Kessler's initial vision for Fort Worth parks was an integrated system of parks based on the natural drainage ways of the City's rivers, and a system of parkways or boulevards tying together the park system, the residential sections and the business district.

"The general experience in American cities, all of which are actively engaged in this work, make it superfluous to submit any argument to show the need for establishing public recreation grounds. They have all found such improvements in all its elements absolutely necessary to the life and growth of their communities, and in no measure a luxury."
- George E. Kessler, September 15, 1909, in the description of Fort Worth's first Park Master Plan

Subsequently, the 1930 and 1957 Hare and Hare Master Plans, the Park and Recreation Department's 1992 Strategic Plan and the 1998, 2004 and 2015 Park, Recreation and Open Space Master Plans

provide strategic direction to ensure that the existing park system is preserved and protected and the future park system is effectively planned for and efficiently developed.

FACILITIES

The City of Fort Worth park system consists of 277 park, recreation, and open space sites and numerous agreements with other agencies. The park system consists of 254 active park sites with the remainder either on reserve for future use or leased to other government or nonprofit agencies. Each park and facility in the current park system is classified under one of the following categories: Neighborhood Based, Community Based, or Special Use & Nature Based Parks.

Fort Worth's diverse population is served by a variety of park, recreational, and open spaces encompassed by the following:

- 11,986 acres of parkland
- 14 City-operated Community Centers
- Fort Worth Botanic Garden
- Fort Worth Nature Center and Refuge
- Fort Worth Zoo
- Log Cabin Village
- 4 Golf Courses (87 holes)
- 72 miles of hike and bike trail (traversing both City and Tarrant Regional Water District properties)
- 11 Athletic Field Complexes (64 fields)
- 188 Neighborhood Based Parks
- 63 Community Based Parks
- 8 Conservancy Parks
- 7 Greenbelts
- 11 Special Use Parks

A complete inventory of these facilities is included in the Capital Appendix.

CAPITAL IMPROVEMENT STRATEGY

The Park and Recreation Department's Capital Improvement Strategy is founded in the adopted 2015 Park, Recreation and Open Space Master Plan. The development of this plan is based on demographics, facility standards, mandates, and age and condition of existing infrastructure. A key overlay is incorporated into the plan from public input obtained through needs assessments and surveys; and community engagement with partner agencies, program and facility support groups, and volunteer stake holders. Lastly, input is obtained from resource management assessments conducted by licensed professional staff, facility managers and program operators.

2015 Park, Recreation and Open Space Master Plan

The Fort Worth Park, Recreation and Open Space Master Plan (Master Plan) is developed following the processes recommended by the National Recreation and Park Association, and the Texas Parks and Wildlife Department. This Master Plan serves as an evolving document that is reviewed and updated over time and provides a dynamic planning framework from which the future needs of the citizens of Fort Worth can be anticipated and met.

The Park and Recreation Department employs a systems approach to create the framework for park master planning. This approach includes the effective use of citizen input and needs assessment tools, adherence to the City's overall vision for community enhancement, and identification of corresponding goals, objectives, and strategies. The

comprehensive nature of this Master Plan addresses the planning and development priorities of the Fort Worth park system for the next five to ten years as identified by the citizens of Fort Worth, the Park and Recreation Advisory Board, the Fort Worth City Council and City staff.

The Goals and Objectives of the Master Plan (goals listed below) are based on public input and are ratified by the Park and Recreation Advisory Board. The identified priorities serve as a guide for decisions made in producing and updating the Master Plan.

1. Restore and maintain the viability of the park, recreation and open space system by investing and re-investing in existing facilities.
2. Provide new parkland and facilities to meet park, recreation and open space needs in developing and re-developing areas of the City.
3. Improve the variety of park, recreation and open space opportunities available to the community.
4. Expand recreational opportunities in the floodplains of the Trinity River and its tributaries.
5. Build and enhance community partnerships to deliver quality services and facilities.
6. Preserve and enhance the City's natural, historical and developed resources.

Capital Improvement Prioritization

The development of the Five Year Capital Improvement Program is based on established priorities using available debt and cash funding for each year within the five year program. Factors used in developing the Park and Recreation Department's CIP priorities include: health and

safety, legal mandates, infrastructure stewardship, policy mandates, direct revenues and leverage potential, high use, and unmet service needs.

CAPITAL REVENUE SOURCES

Special Purpose Fund

The Special Purpose Fund is used to account for revenue received from donations, participant fees and other specially designated funding, and covers both operating and capital needs. They are typically governed by standing agreements between the City and support groups for specific purposes. These gifts and contributions are restricted to a specific purpose and use is based on the stipulations of the donor and can be for either operational or capital needs.

General Capital Projects Fund

The General Capital Projects Fund is used to accumulate reimbursements from other governmental agencies for the prior purchase of real property assets, proceeds from an occasional sale of surplus real property as approved by Council, bonuses and royalties received from gas leases (as described in the City's Financial Management Policy Statements "Revenues", Section I., Revenues from Gas Leases and Pipeline Agreements), and transfers from the General Fund unassigned fund balance. This fund shall only be used to pay for non-routine and one-time expenditures such as land and building purchases, construction and maintenance projects with at least a ten (10) year life, feasibility, design and engineering studies related to such projects, capital equipment and vehicles with at least a ten (10) year life, and technology improvements with at least a five (5) year life.

Special Donations Capital Projects Fund

The Special Donations Capital Projects Fund is used to account for revenue that is given to the City by individuals, neighborhood associations, and other organizations for specific capital improvements.

Intergovernmental Contributions

Intergovernmental Contributions are executed agreements with other government entities for the temporary use of parkland for a fee that is to be used at the park where the activities occur for park improvements. Examples: Tarrant Regional Water District and area independent school districts.

Park Dedication Fees

The Park Dedication Fees Fund is used to account for fees received through the Neighborhood and Community Park Dedication Policy. Fees are assessed and collected based on seventy nine (79) neighborhood units and twenty one (21) community park units. The fees for neighborhood parks are restricted to the unit it is received for or adjoining units. Community park fees may be pooled together within the Park Planning District. Within each unit fees are collected for specific purposes such as land acquisition, development, infrastructure and engineering. Interest earned on this fund may be used to supplement any of the fees.

Grants (Federal, State, Local)

Grant funds are funds that the City receives through an application process and are awarded for use on a specific project as described in the application process. Grants may be awarded by federal, state and private nonprofit foundations and typically are reimbursable. Examples of grants that have been awarded are: Federally funded (State Transportation Enhancement Program, Transportation Alternatives Program and Congestion Mitigation and Air Quality, Community

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Development Block Grants); State funded (Texas Parks and Wildlife Department – Urban Outdoor Recreation, Urban Indoor Recreation, and Recreational Trails Grant); and Locally funded (Amon G. Carter Foundation, Meta Alice Keith Bratten Foundation, and The Society of Municipal Arborists).

Gas Well Revenues

Gas Well Revenues are distributed in accordance with the City's Financial Management Policy Statement as amended and adopted by City Council on November 1, 2016 (M&C G-18872).

Bonus

With the exception of Lake Worth Park Land and the Nature Center, bonus revenues from gas well leases associated with parkland will be recorded in the Park Gas Lease Capital Project Fund and will be designated for use for capital improvements within the park system.

Royalties and Other Fees

With the exception of the Nature Center, royalties and other fees received from gas leases or license agreements associated with park land that has federal and/or state restrictions requiring proceeds to be spent within the park system shall be allocated as follows:

- Fifty percent (50%) to the Park Gas Lease Capital Project Fund; and
- Fifty percent (50%) to the Park System Endowment Gas Lease Fund.

Royalties and fees from gas well leases, pipelines or related activities located on all other City property, including but not limited to parks without federal, state, deed or other legal restrictions; landfills,

general City facilities, and street rights-of-way, will be allocated as follows:

- Fifty percent (50%) of the revenue will be allocated to the General Gas Lease Capital Projects Fund; and
- Fifty percent (50%) of the revenue will be allocated to the General Endowment Gas Lease Fund.

Lake Worth

Funds from park land located in and around Lake Worth (except the Nature Center and Refuge) shall be designated for qualified expenditures in the development and execution of the 2007 Lake Worth Capital Improvement Implementation Plan, until such time as the plan projects are completed.

Nature Center

Bonus revenues from gas well leases associated with the Nature Center will be allocated first to establish the Nature Center Endowment Gas Lease Fund such that a \$10 million corpus will be established within the Endowment Fund. Any remaining funds will be allocated fifty percent (50%) to Nature Center Gas Lease Capital Improvement Program to implement the Nature Center Master Plan and fifty percent (50%) to the Park Gas Lease Capital Project Fund.

Until full funding of the Master Plan has been achieved, all royalties and other revenue received from gas leases associated with the Nature Center will be allocated as follows:

- Twenty-five percent (25%) to the Nature Center Gas Lease Capital Improvement Program
- Twenty-five percent (25%) to the Park Gas Lease Capital Project Fund; and
- Fifty percent (50%) to the Park-System Endowment Gas Lease Fund.

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5-year Capital Improvement Plan

Fiscal Years 2018-2022

After full funding of the Master Plan has been achieved, all royalties and other revenues received from gas leases associated with the Nature Center will be allocated as follows:

- Fifty percent (50%) to the Park Gas Lease Capital Project Fund; and
- Fifty percent (50%) to the Park System Endowment Gas Lease Fund.

General Debt Service Funds (Bond and Certificate of Obligations)

Debt financing includes general obligation bonds, certificates of obligation, lease/purchase agreements, certificates of participation,

commercial paper, tax notes, and other obligations permitted to be issued or incurred under Texas law. Examples include 2014 Bond, 2013 Certificates of Obligation, 2004 Bond.

Specially Funded Projects Fund

The Specially Funded Projects Fund is used to account for revenue, received from various organizations and individuals for leases, license agreements and fees, and do not have restrictions on the type of improvements to be constructed. Examples include temporary (short and long term) use of parkland, temporary water line agreements, workspace agreements, etc. Examples include Putt-Putt lease, mitigation fees and the Colonial Country Club Agreement.

Summary of Unappropriated Funds

Fund Name	Unappropriated Balance
Special Purpose Fund*	\$0
General Capital Projects Fund	\$0
Special Donations Cap Projects	\$40,710
Intergovernmental Contribution	\$0
Park Dedication Fees Fund*	\$11,935,987
PACS Gas Lease Cap Projects*	\$793,351
2014 Bond Program	\$0
Specially Funded Projects Fund	\$0
Lake Worth Gas Lse Cap Legacy	\$0
PACS Gas Revenue Legacy Fund*	\$1,050,217
Street Improvements Fund	\$0
PACS Improvements Fund	\$0
TOTAL	\$13,820,265

*Park Dedication Fees and Gas Well Revenues consist of multiple revenue accounts that have restrictions based on the City's Financial Management Policy Statements. Special Purpose Funds listed are for PARD only.

**In order to advance the Fort Worth Nature Center and Refuge (FWNC&R) Master Plan, the land acquisitions made by the FWNC&R have been paid from Park Dedication Fees interest funds in the amount of \$1,100,542 with the intention that upon the leasing of the minerals contained within the

City of Fort Worth

Park and Recreation

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Fiscal Years 2018-2022

FWNC&R and distributed pursuant to the current Financial Management Policy, this amount will be reimbursed to the Park Dedication Fees Fund.

CAPITAL PLAN SUMMARY BY PROJECT CATEGORY

Park and Recreation Department

Capital projects are grouped by project type including: erosion repair and control, park roads and parking lots, athletic field improvements, athletic field lighting, reserve park development, playgrounds, park renovation of existing facilities,

walks and trails, aquatic facilities, security lighting, and parkland acquisition.

Property Management Department

The Property Management Department's 5-year Capital Improvement Plan includes the following project types: service center improvements, new community centers and expansions/renovations to existing centers.

The following table summarizes both appropriated and proposed funding for fiscal years 2018 through 2022 by project type. Subsequent tables depict current funding by project.

Summary of Funding By Project Category

Project Type	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Park Erosion Repair and Control	\$3,402,669	\$109,000	\$1,091,868	\$0	\$0	\$0	\$4,603,537
Park Roads and Parking Lots	\$2,091,310	\$35,758	\$175,000	\$0	\$0	\$725,000	\$3,027,068
Athletic Field Improvements	\$8,060,000	\$2,112,900	\$1,000,000	\$0	\$0	\$0	\$11,172,900
Athletic Field Lighting	\$0	\$0	\$600,000	\$0	\$0	\$2,400,000	\$3,000,000
Reserve Park Development	\$1,694,736	\$0	\$175,000	\$250,420	\$2,010,000	\$1,750,000	\$5,880,156
Playgrounds	\$1,879,399	\$3,935,000	\$1,719,141	\$2,860,777	\$2,965,208	\$2,619,816	\$15,979,341
Park Renovations of Existing Facilities	\$5,089,106	\$1,494,895	\$9,462,623	\$4,585,750	\$3,055,750	\$1,315,750	\$25,003,874
Walks and Trails	\$29,211,540	\$131,264	\$7,500,000	\$0	\$0	\$200,000	\$37,042,804
Aquatic Facilities	\$2,300,000	\$0	\$0	\$0	\$0	\$0	\$2,300,000
Parks Security Lighting	\$469,128	\$0	\$0	\$0	\$0	\$452,000	\$921,128
Park Land Acquisition	\$325,088	\$0	\$4,250,000	\$0	\$1,000,000	\$0	\$5,575,088
Total	\$54,522,975	\$7,818,817	\$25,973,632	\$7,696,947	\$9,030,958	\$9,462,566	\$114,505,895

The following sections include a detailed listing of individual projects within each project type. Each table includes the project description, the funding source for previously appropriated funding, funding

to be appropriated in FY 2018, and the proposed funding appropriation for years 2018 through 2022.

The following table provides a legend defining the funding abbreviations and color coding:

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Fund Source Legend

LEGEND	
	= 2018 Bond Program
	= Needs Appropriation
	= Partially Funded
	= PayGo
	= Previously Appropriated
	= Unfunded

LEGEND	
General Debt Service Funds	Gas Well Revenues
04CIP = 2004 Bond Program	Gas = Gas Well Revenues
14CIP = 2014 Bond Program	Wtr/S = Water & Sewer (Gas) Funds
18CIP = 2018 Bond Program	
General Capital Projects Fund	Special Donations Capital Projects Fund
GC = General Capital Projects Fund	Don = Donations
Specially Funded Projects Fund	Intergovernmental Contributions
SFPF = Specially Funded Projects Fund	Mit = Mitigation Fees
Mit = Mitigation Fees	LA = License Agreement
LA = License Agreement	Special Purpose Fund
Misc = Miscellaneous Revenue	LA = License Agreement
Grants	Misc = Miscellaneous Revenue
GF = Grant Funds	PF = Private Funds
Park Dedication Fees	Miscellaneous
PDF = Park Dedication Fees	DDL = Developer Dedicated Land

Park Erosion Repair and Control

Park erosion repair and control projects include design and construction of drainage and erosion control improvements. These improvements are directly related to the protection and preservation of

parkland and facilities with the goal of sustaining the park infrastructure through responsible land and facility stewardship. The eleven (11) projects included in the 5-year CIP totaling \$4,603,537 are listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Candleridge Park Drainage and Erosion Control	Gas	\$91,979						\$91,979
Foster Park Drainage and Erosion Control	04CIP, 14CIP	\$105,705						\$105,705
French Lake Dam (Candleridge Park) Drainage and Erosion Control	PayGo, Future Debt		\$44,000	\$256,000				\$300,000
FWNC&R - Levee Reconstruction	14CIP, Don	\$425,000						\$425,000
Lake Como Dam (Lake Como Park) Drainage and Erosion Control	PayGo, Future Debt		\$65,000	\$405,000				\$470,000
Oakland Lake Dam (Oakland Lake Park) Drainage and Erosion Control	PayGo			\$300,000				\$300,000
Rockwood Park Drainage and Erosion Control	Gas	\$69,292						\$69,292
Rodeo Park Erosion Control	Gas	\$61,416						\$61,416
Stonecreek Park Drainage and Erosion Control	Gas			\$100,000				\$100,000
Sunset Hills Drainage and Erosion Control	Gas	\$19,132		\$30,868				\$50,000
Zoo Creek Drainage and Erosion Control	Wtr/S (Gas), 14CIP	\$2,630,145						\$2,630,145
Park Erosion Repair and Control Total		\$3,402,669	\$109,000	\$1,091,868	\$0	\$0	\$0	\$4,603,537

Park Roads and Parking Lots

Projects related to roads and parking lot improvements located on dedicated parkland throughout the City include the renovation and/or

expansion of existing facilities and development of new facilities within parkland. The twelve (12) projects included in the 5-year CIP totaling \$3,027,068 are listed below.

City of Fort Worth

Park and Recreation

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Andrew Doc Sessions Community Center Road and Parking Improvements	14CIP, Gas, GC	\$27,191						\$27,191
Carter Park Road and Parking Improvements	GF	\$900,000						\$900,000
Forest Park Pool Road and Parking Improvements	Unfunded			\$175,000				\$175,000
Forest Park Road and Parking Improvements (Park Place)	Gas	\$149,743	\$35,758					\$185,501
Handley Park Road and Parking Improvements	14CIP, Gas	\$111,660						\$111,660
Hillside Park Road and Parking Improvements	14CIP, GC	\$108,531						\$108,531
Kellis Park Road and Parking Improvements	04CIP, SFPF	\$96,373						\$96,373
Marion Sansom Park Road and Parking Improvements	14CIP, Gas, GC	\$55,209						\$55,209
Parking Lot Repaving (Various TBD)	PayGo						\$725,000	\$725,000
RD Evans Community Center Road and Parking Improvements	14CIP, GC	\$124,826						\$124,826
Thomas Place Park / Community Center Road and Parking Improvements	14CIP, GC	\$42,224						\$42,224
Trinity Park Road and Parking Improvements	Gas	\$475,553						\$475,553
Park Roads and Parking Lots Total		\$2,091,310	\$35,758	\$175,000	\$0	\$0	\$725,000	\$3,027,068

Athletic Field Improvements

Projects related to athletic field improvements include renovation of existing athletic field complexes and providing new athletic fields to meet

the City's adopted level of service standards. The seven (7) projects included in the 5-year CIP totaling \$11,172,900 are listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Alliance Park Athletic Field Improvements - Part 1	GF, PDF, Gas	\$2,310,000						\$2,310,000
Alliance Park Athletic Field Improvements - Part 2	14CIP		\$1,000,000					\$1,000,000
Alliance Park Athletic Field Improvements - Part 3	GF			\$1,000,000				\$1,000,000
Fossil Creek Little League (Partnership Funds)	14CIP, Don	\$200,000	\$200,000					\$400,000
Gateway Park Synthetic Turf	PayGo	\$1,400,000	\$812,900					\$2,212,900
Miracle League Athletic Field Improvements (Partnership Funds)	14CIP		\$100,000					\$100,000
Northwest Community Park Athletic Field Improvements	14CIP, GF	\$4,150,000						\$4,150,000
Athletic Field Improvements Total		\$8,060,000	\$2,112,900	\$1,000,000	\$0	\$0	\$0	\$11,172,900

Athletic Field Lighting

Projects related to athletic field lighting which are located at park sites throughout the City include replacement of existing lighting standards and

installation of lighting on previously unlit fields in order to expand the hours of field use. The three (3) projects included in the 5-year CIP totaling \$3,000,000 are listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Harmon Athletic Field	Future Debt						\$600,000	\$600,000
North Park Field Improvements	Future Debt			\$600,000				\$600,000
Rolling Hills Field Improvements	Future Debt						\$1,800,000	\$1,800,000
Athletic Field Lighting Total		\$0	\$0	\$600,000	\$0	\$0	\$2,400,000	\$3,000,000

Service Center Improvements

Service center improvements include the relocation and expansion of the PARD operations and maintenance facilities, and the development of a new PARD headquarters/administration offices building. These improvements are listed in the Property Management Department's 5-year Capital Improvement Plan

New Community Centers and Expansion/Renovation of Existing Centers

Projects related to new neighborhood centers and expansion/renovation of existing centers at park sites throughout the City are to meet current levels of service standards and accommodate anticipated future growth. These improvements are listed in the

City of Fort Worth

Park and Recreation

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Property Management Department's 5y-Year Capital Improvement Plan

The thirteen (13) projects included in the 5-year CIP totaling \$5,880,156 are listed below.

Reserve Park Development

Projects related to the development of reserve parks, or currently undeveloped parks throughout the City.

Description	Funding Sources	reviously App	FY18	FY19	FY20	FY21	FY22	TOTAL
Bunche Park Development	04CIP, GF	\$540,516						\$540,516
Deer Creek Reserve Park Development	14CIP, Gas, GC	\$575,363						\$575,363
Deer Meadow Reserve Park Development	Future Debt						\$500,000	\$500,000
Ederville Reserve Park Development	Gas				\$250,420			\$250,420
Kingsridge Reserve Park Development	Future Debt					\$600,000		\$600,000
Lago Vista at Bonds Ranch Reserve Park Development	PDF			\$175,000				\$175,000
Marine Creek Lake Reserve Park Development	Future Debt						\$500,000	\$500,000
McPherson Park Development	Future Debt					\$500,000		\$500,000
Parkwood East Reserve Park Development	Future Debt						\$300,000	\$300,000
Remington Pointe Reserve Park Development	14CIP, Gas, GC	\$578,856						\$578,856
Tim Watson Reserve Park Development	Future Debt					\$500,000		\$500,000
Trail Lake Estates Reserve Park Development	Future Debt						\$450,000	\$450,000
Vineyards at Heritage Reserve Park Development	Future Debt					\$410,000		\$410,000
Reserve Park Development Total		\$1,694,736	\$0	\$175,000	\$250,420	\$2,010,000	\$1,750,000	\$5,880,156

Playgrounds

Projects related to the replacement of existing playgrounds and the addition of new playgrounds at

park sites throughout the City. The fifty-three (53) projects included in the 5-year CIP totaling \$15,979,341 are listed below.

City of Fort Worth

Park and Recreation

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Anderson Campbell Park Playground Installation	GF	\$155,000						\$155,000
Arcadia Park Playgrounds (#3-4800 Seneca)	PayGo					\$250,000		\$250,000
Arcadia Trail Park North Playgrounds (#5- 8251 Quachita Crossover St.)	PayGo			\$250,000				\$250,000
Arcadia Trail Park North Playgrounds (#9 -4320 Shiver Rd.)	PayGo						\$250,000	\$250,000
Arcadia Trail Park South Playgrounds (# 7-4950 Basswood Blvd.)	PayGo				\$250,000			\$250,000
Arcadia Trail Playgrounds (# 6-7812 Park Trails)	PayGo			\$250,000				\$250,000
Arcadia Trail Playgrounds (#2 - 8300 Island Pk)	PayGo			\$250,000				\$250,000
Arrow S Park Playground Replacement	14CIP, GC	\$212,625						\$212,625
C.P Hadley Park Playgrounds	PayGo				\$250,000			\$250,000
Camelot Playgrounds (6 - 12 only)	PayGo					\$200,000		\$200,000
Camp Joy Park Playground Replacement	14CIP, GC	\$212,625						\$212,625
Candleridge Playgrounds	PayGo					\$250,000		\$250,000
Carter Park Playground Replacement	GF	\$155,000						\$155,000
Casino Beach Playgrounds	PayGo				\$250,000			\$250,000
Daggett Playgrounds	PayGo					\$300,000		\$300,000
Delga Playgrounds	PayGo		\$250,000					\$250,000
Dream Park Playground Installation (Universal Playground at Trinity Park)	Don		\$3,000,000					\$3,000,000
Ellis Playgrounds	PayGo						\$250,000	\$250,000
Eugene McCray Park at Lake Arlington Playgrounds	PayGo				\$250,000			\$250,000
Forest Park Playgrounds (6-12 and Swings only)	PayGo		\$200,000					\$200,000
Foster Playgrounds (North Location)	PayGo				\$250,000			\$250,000
Gid Hooper Playgrounds	PayGo						\$250,000	\$250,000
Glenwood Playgrounds	PayGo					\$250,000		\$250,000
Harmon Field Playground and Park Improvements	PayGo		\$300,000					\$300,000
Harrold Playgrounds	PayGo				\$250,000			\$250,000
Harvey Street Park Playground Replacement	14CIP, GC	\$212,625						\$212,625
Hillside Playgrounds	PayGo			\$250,000				\$250,000
Jennings-May-St. Louis Playgrounds	PayGo						\$250,000	\$250,000
Kristi Jean Burbach Playgrounds	PayGo						\$250,000	\$250,000
Lake Como Playgrounds (Westside)	PayGo				\$250,000			\$250,000
Littlejohn Playgrounds	PayGo					\$250,000		\$250,000
Lost Spurs Playgrounds	PayGo						\$250,000	\$250,000
Louella Bales Baker Park Playgrounds	PayGo					\$200,000		\$200,000
Marine Creek Linear North Playgrounds	PayGo						\$250,000	\$250,000
Marine Playgrounds	PayGo					\$250,000		\$250,000
Meadowbrook Golf Course Playgrounds (2-5 only)	PayGo					\$200,000		\$200,000
Monticello Park Playground Replacement	14CIP, GC	\$212,625						\$212,625
Morris Berney Playgrounds	PayGo					\$250,000		\$250,000
N Boaz Playground Installation	LA, Gas	\$13,290	\$185,000					\$198,290
Oakhurst Playgrounds	PayGo				\$100,000	\$100,000		\$200,000
Overton Playgrounds	PayGo					\$250,000		\$250,000
Quanah Parker Park Playgrounds	PayGo				\$250,000			\$250,000
River Park Playground	Gas			\$212,625				\$212,625
Southcreek Park Playground Replacement	14CIP, Gas, GC	\$258,402						\$258,402
Southwest Community Center / Park Playgrounds (community center)	PayGo				\$250,000			\$250,000
Summerbrook Park Playground Replacement	14CIP, GC	\$212,625						\$212,625
Sycamore Playgrounds (ball field location)	PayGo			\$250,000				\$250,000
Titus Paulsel Park Playground Replacement	14CIP, Gas, GC	\$234,582						\$234,582
Universal Playground Equipment	Future Debt						\$750,000	\$750,000
Westcreek Playgrounds	PayGo				\$250,000			\$250,000
Worth Heights Playgrounds	PayGo				\$250,000			\$250,000
Worth Hills Playgrounds	PayGo			\$250,000				\$250,000
Wright Tarlton Playgrounds	PayGo					\$200,000		\$200,000
Various Playground Improvements	PayGo			\$6,516	\$10,777	\$15,208	\$119,816	\$152,317
Playgrounds Total		\$1,879,399	\$3,935,000	\$1,719,141	\$2,860,777	\$2,965,208	\$2,619,816	\$15,979,341

City of Fort Worth

Park and Recreation

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Park Renovations of Existing Facilities

Projects related to the replacement of existing amenities that have exceeded their useful life, or adding new amenities to park sites throughout the

City to meet current levels of service standards and accommodate anticipated future growth. The fifty-four (54) projects included in the 5-year CIP totaling \$25,003,874 are listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Alliance Gateway Community Park Renovation	Future Debt			\$3,000,000				\$3,000,000
Botanic Garden Conservatory	Don, Unfunded	\$100,000					\$1,200,000	\$1,300,000
Chisholm Trail Park Renovation	Future Debt				\$2,500,000			\$2,500,000
Crawford Farms Park Improvements	PDF		\$101,455					\$101,455
Eagle Mountain Ranch Park Improvements	Gas	\$225,199						\$225,199
Eastbrook Park Improvements	Gas	\$55,803						\$55,803
Eastover Park Improvements	Gas	\$47,250						\$47,250
Ellis Park Improvements	Gas	\$52,799						\$52,799
Fairfax Park Improvements	Gas	\$33,424						\$33,424
Fairmount Park Improvements	Gas	\$52,800						\$52,800
Fire Station Park Expansion - 1616 Hemphill Street	PDF, Gas	\$209,446						\$209,446
FWNC&R - Greer Island Composting Toilet	PayGo			\$100,000				\$100,000
Fort Worth Zoo Utility Infrastructure	PayGo, Future Debt		\$661,000	\$1,339,000				\$2,000,000
Gateway Park Retaining Wall Replacement (Engineering Only)	Gas	\$97,402						\$97,402
George Markos Park Improvements	Gas	\$88,402						\$88,402
Greenway Park Renovation	Gas			\$66,873				\$66,873
Heritage Park Redevelopment	14CIP	\$1,500,000						\$1,500,000
Hulen Meadows Park Improvements	Gas		\$65,993					\$65,993
Log Cabin Village - trail replacement	PayGo			\$178,000				\$178,000
Marie Pate Park Improvements	Gas		\$15,000					\$15,000
Marine Creek Lake Park Improvements	Gas, PDF	\$3,829	\$135,000					\$138,829
Marine Creek Ranch Park Renovation	Future Debt					\$3,000,000		\$3,000,000
Mayfest 2016 Grant	GF, Gas	\$58,000						\$58,000
McLeland Tennis Center 2014 Renovation	14CIP, Gas	\$550,000	\$150,000					\$700,000
Meadowcreek Park Improvements	PDF		\$47,502					\$47,502
Normandy Place Park Renovation	Gas		\$43,198					\$43,198
North Park Renovation	04CIP, Future Debt	\$100,000		\$2,000,000				\$2,100,000
North Z Boaz Amenities	LA				\$30,000			\$30,000
North Z Boaz Fitness Station	LA			\$30,000				\$30,000
North Z Boaz Renovation	Future Debt				\$2,000,000			\$2,000,000
North Z Boaz Shelter	LA						\$60,000	\$60,000
Overton Park Improvements	Gas	\$52,800						\$52,800
Pecan Valley Park Improvements	Gas	\$52,800						\$52,800
Quanah Parker Park Improvements	Gas			\$143,000				\$143,000
Riverside Park TRV Renovation & Development	Gas, Future Debt	\$207,219		\$2,000,000				\$2,207,219
Rosemont Park Improvements	14CIP, Gas	\$287,000	\$150,000					\$437,000
Settlement Plaza Park Improvements	Gas	\$62,915						\$62,915
South Meadows Park Improvements	Gas	\$7,564	\$17,437					\$25,001
Southwest Park Improvements	Gas		\$5,450					\$5,450
Springdale Park Improvements	Gas	\$12,970	\$12,030					\$25,000
Stratford Park	Gas	\$82,153						\$82,153
Sycamore Park Soccer Field	GC	\$183,700						\$183,700
Sycamore Park Walk and Trail Replacement	PayGo			\$550,000				\$550,000
Tandy Hills Park Improvements	Gas	\$75,800						\$75,800
Thorny Ridge Park Improvements	Gas		\$10,772					\$10,772
Trail Drivers Park Improvements	14CIP, Gas	\$523,245						\$523,245
Trinity Park & Trinity River Corridor Improvements	LA	\$25,000	\$10,000	\$2,500	\$2,500	\$2,500	\$2,500	\$45,000
Trinity Park & Trinity River Corridor Improvements	LA		\$27,000	\$27,000	\$27,000	\$27,000	\$27,000	\$135,000
Trinity Park Improvements	LA (Mayfest)		\$26,250	\$26,250	\$26,250	\$26,250	\$26,250	\$131,250
Water Gardens Quiet Pool Renovation	GC-TIF	\$100,000						\$100,000
Water Gardens South Wall Removal design phase only	GC-TIF	\$150,000						\$150,000
Willow Creek Park Improvements	Gas	\$30,595						\$30,595
Worth Heights Park Improvements	Gas	\$8,192	\$16,808					\$25,000
Z Boaz - South Park Improvements	Gas	\$52,800						\$52,800
Park Renovations of Existing Facilities Total		\$5,089,106	\$1,494,895	\$9,462,623	\$4,585,750	\$3,055,750	\$1,315,750	\$25,003,874

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Park and Recreation

Walks and Trails

Projects related to replacing/expanding existing trails and walkways or adding new trails and

walkways at park sites throughout the City. The thirteen (13) projects included in the 5-year CIP totaling \$37,042,804 are listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Arcadia South Trail connection	GF, PDF	\$100,000	\$131,264					\$231,264
Centreport Trail	14CIP, 04CIP, GF	\$2,757,588						\$2,757,588
Gateway Park to Quannah Parker Park (East 1st Street)	Gas	\$1,000,000						\$1,000,000
Lake Worth Trail	Wtr/S (Gas)	\$7,347,234						\$7,347,234
Love Circle Park Trail	Wtr/S (Gas)	\$200,000						\$200,000
Neighborhood Transportation Connections for Ped and Bikes Part II	14CIP, 04CIP, Gas, Don, GF	\$6,651,676						\$6,651,676
SH 121T Trinity River Corridor	04 CIP	\$3,550,000						\$3,550,000
Trail Gap Connections	04CIP, Future Debt	\$100,000		\$3,500,000				\$3,600,000
Trinity Park - Paving Bypass Trail	Unfunded						\$200,000	\$200,000
Trinity Trails - E FW Extension	14CIP, GF	\$2,934,926						\$2,934,926
Trinity Trails - E FW Extension Part II	14CIP, GF	\$914,116						\$914,116
Trinity Trails - East Bank Extension	04CIP, GF	\$3,656,000						\$3,656,000
Trinity Trails (River Trails Park to River Legacy Park)	Future Debt			\$4,000,000				\$4,000,000
Walks and Trails Total		\$29,211,540	\$131,264	\$7,500,000	\$0	\$0	\$200,000	\$37,042,804

Aquatic Facilities

Projects related to the development of aquatic facilities throughout the City to meet current levels

of service standards and accommodate anticipated future growth. The one (1) project included in the Five Year CIP totaling \$2,300,000 is listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
YMCA SE - Swimming Pool	GC	\$ 2,300,000						\$2,300,000
Aquatic Facilities Total		\$2,300,000	\$0	\$0	\$0	\$0	\$0	\$2,300,000

5-year Capital Improvement Plan

Fiscal Years 2018-2022

Parks Security Lighting

Projects related to the addition of security lighting at park sites throughout the City. The forty-five (45)

projects included in the 5-year CIP totaling \$921,128 are listed below.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Anderson Park-Security Lighting	14CIP	\$29,040						\$29,040
Chadwick Farms Park-Security Lighting	14CIP	\$14,520						\$14,520
Chisholm Ridge Park-Security Lighting	14CIP	\$21,780						\$21,780
Chuck Silcox Park-Security Lighting	14CIP	\$14,520						\$14,520
CP Hadley Security Lighting	PayGo						\$52,000	\$52,000
Creekside Security Lighting	PayGo						\$24,000	\$24,000
Crossing at Fossil Creek Park-Security Lighting	14CIP	\$21,780						\$21,780
Dorado Park-Security Lighting	14CIP	\$36,300						\$36,300
Eagle Mountain Ranch Park-Security Lighting	14CIP	\$29,040						\$29,040
Englewood Security Lighting	PayGo						\$20,000	\$20,000
Eugene McCray Park at Lake Arlington Security Lighting	PayGo						\$16,000	\$16,000
Fairmount Security Lighting	PayGo						\$8,000	\$8,000
Falcon Ridge Park-Security Lighting	14CIP	\$21,780						\$21,780
Fox Run Security Lighting	PayGo						\$16,000	\$16,000
Gateway Park / Fort Woof Dog Park Security Lighting	PayGo						\$24,000	\$24,000
Gid Hooper Park-Security Lighting	Gas	\$25,000						\$25,000
Highland Hills Security Lighting	PayGo						\$16,000	\$16,000
Hulen Meadows Park-Security Lighting	14CIP	\$29,040						\$29,040
Junction Park-Security Lighting	14CIP	\$21,780						\$21,780
Kingswood Park-Security Lighting	14CIP	\$29,040						\$29,040
Kraus Baker Security Lighting	PayGo						\$24,000	\$24,000
Kristi Jean Burbock Security Lighting	PayGo						\$12,000	\$12,000
Little People Security Lighting	PayGo						\$12,000	\$12,000
Maddox Security Lighting	PayGo						\$8,000	\$8,000
McPherson Ranch Park-Security Lighting	14CIP	\$14,520						\$14,520
Meadowood Security Lighting	PayGo						\$12,000	\$12,000
Oakland Lake Security Lighting	PayGo						\$40,000	\$40,000
Reata Park-Security Lighting	14CIP	\$21,780						\$21,780
Ridgeview Farms Park-Security Lighting	14CIP	\$21,780						\$21,780
Silver Sage Security Lighting	PayGo						\$16,000	\$16,000
South Meadows Security Lighting	PayGo						\$8,000	\$8,000
Southcreek Park-Security Lighting	14CIP	\$13,440						\$13,440
Springdale Security Lighting	PayGo						\$12,000	\$12,000
Summerbrook Security Lighting	PayGo						\$20,000	\$20,000
Summerfields Security Lighting	PayGo						\$40,000	\$40,000
Sundance Springs Security Lighting	PayGo						\$12,000	\$12,000
Tadlock Security Lighting	PayGo						\$12,000	\$12,000
Tehama Ridge Park-Security Lighting	14CIP	\$21,780						\$21,780
Trails of Fossil Creek Park-Security Lighting	14CIP	\$21,780						\$21,780
Twin Mills Park-Security Lighting	14CIP	\$14,520						\$14,520
Wedgewood Park	Gas	\$24,128						\$24,128
Westcreek / Woodmont Security Lighting	PayGo						\$24,000	\$24,000
Willow Creek Security Lighting	PayGo						\$12,000	\$12,000
Willow Ridge Park-Security Lighting	14CIP	\$21,780						\$21,780
Worth Heights Security Lighting	PayGo						\$12,000	\$12,000
Parks Security Lighting Total		\$469,128	\$0	\$0	\$0	\$0	\$452,000	\$921,128

Parkland Acquisition

Parkland is acquired through developer dedication through the Neighborhood and Community Park Dedication Policy, and outright purchase to meet current levels of service standards and accommodate anticipated future growth. The three

(3) projects included in the 5-year CIP totaling \$5,575,088 are listed below. As noted below, a funding appropriation will not be required for the acquisition of parkland acquired through developer dedication.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
Far Northwest Sector Community Park Land Acq	PDF, Unfunded	\$325,088		\$750,000				\$1,075,088
Neighborhood and Community Park Land Acquisition	Future Debt			\$3,500,000				\$3,500,000
Thomas Place Community Center	Future Debt					\$1,000,000		\$1,000,000
Park Land Acquisition Total		\$325,088	\$0	\$4,250,000	\$0	\$1,000,000	\$0	\$5,575,088

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Park and Recreation

CAPITAL OUTLAY: Studies and Furniture, Fixtures & Equipment (FF&E)

The table below identifies one-time studies and FF&E that are directly tied to a capital project.

Description	Funding Sources	Previously Appr	FY18	FY19	FY20	FY21	FY22	TOTAL
2018 Needs Assessment	Unfunded		\$50,000					\$50,000
2020 Park, Recreation and Open Space Master Plan Update	Unfunded			\$150,000				\$150,000
Alliance Gateway Community Park Athletics FF&E	Unfunded					\$41,851		\$41,851
Bomber Spur Trail Alignment Study	Unfunded		\$50,000					\$50,000
Chisholm Trail Park Athletics FF&E	PayGo	\$28,000						\$28,000
Como Community Center FF&E	Unfunded			\$625,000				\$625,000
Eugene McCray Community Center FF&E	PayGo	\$119,000						\$119,000
Fort Worth Botanic Garden Strategic Plan	Gas	\$350,000						\$350,000
Handley-Meadowbrook Community Center FF&E	PayGo	\$254,000						\$254,000
Leverage Opportunities	Gas			\$230,000				\$230,000
NW Community Park Athletics FF&E	Unfunded			\$41,490				\$41,490
NW Community Park Operations FF&E	Unfunded			\$15,500				\$15,500
Park Platting and Studies (Construction)	Unfunded			\$600,000				\$600,000
Recreation Center Equipment Replacement	PayGo	\$62,000	\$69,000	\$72,000	\$75,000	\$78,000	\$82,000	\$438,000
Special Studies	Unfunded			\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Trail Gap Study	Unfunded			\$150,000				\$150,000
VUEWorks	PayGo		\$330,100					\$330,100
Capital Outlay Total		\$813,000	\$499,100	\$1,933,990	\$125,000	\$169,851	\$132,000	\$3,672,941
Estimated CIP Operating Impacts		\$0	\$308,614	\$0	\$194,169	\$194,169	\$0	\$696,952
Estimated CIP Operating Impacts- AP's		0.00	0.00	0.00	0.00	0.00	0.00	0.00

OPERATIONS AND MAINTENANCE IMPACT

The Park and Recreation Department (PARD) Capital Improvement Program includes a balance of improvements to existing facilities and development of new facilities. The PARD currently operates and maintains facilities within 277 City parks which are grouped into five (5) park operational/maintenance districts: North, East, South, West and Central (see Appendix). Each operational district maintains its own management plan and operations manual.

A sixth district was created for City Wide Mowing/Surplus Property/Right-of-Ways (ROW) mowing. Additionally, city-wide maintenance responsibilities for athletic field maintenance (competition and secondary fields) is assigned to Athletics Maintenance, park infrastructure maintenance is assigned to Trades Maintenance and urban forestry maintenance, plantings and abatement responsibilities for parkland, City properties and ROW is assigned to Forestry.

District and Infrastructure Maintenance

The PARD annually acquires and/or develops parks. Funding for operation and maintenance costs provide for park maintenance crews to perform current maintenance schedules at newly developed neighborhood and community parks. Although many parks are contracted for mowing (March through November), park crews are required to pick up litter weekly during the year, maintain signage, maintain playgrounds, conduct tree maintenance, clean creeks, and address any outstanding issues that may occur throughout the year such as storm damage and periodic illegal dumping in the parks. Funding amounts per park varies depending on the acreage and park facilities.

In addition to parkland, traffic dividers including landscaped/streetscapes, roundabouts and medians are acquired and accepted. For these and new facility grounds costing also may include plant replacements, utilities and more frequent services. Funds are also requested for seasonal staff to provide the required maintenance. However, if the number of hours needed for new park maintenance

equals a full time employee, an additional Authorized Personnel (AP) is requested.

While additional parkland and new facility development will occur in FY 2018, no additional APs are anticipated; however, with the addition of new infrastructure and parkland there will be increased maintenance costs. The PARD has developed a maintenance calculator for the day to day maintenance of our park grounds, which includes mowing, litter pick-up, bed maintenance, and supplies. The annual maintenance impact associated with new park infrastructure is estimated to be one (1%) percent of the development construction cost. Individual park amenity maintenance costs have been developed and are used for a more detailed maintenance projection.

Athletics Operations and Maintenance

Athletics Maintenance maintains competition and secondary fields. Currently, there are sixty-five (65) competition fields: forty-six (46) are soccer and nineteen (19) are baseball/softball. Four (4) new competition baseball/softball fields are currently being constructed and will be opened in FY2018. The competition fields are mowed twice a week for forty weeks and lined each week. In addition, the maintenance staff performs the following weekly tasks of dragging the in-fields, trimming, weed-eating and on an as needed basis fertilizes the fields and performs irrigation repairs. Operational impacts for the opening of new competition athletic fields include: additional staff, water, electricity for irrigation and lights, equipment (both mowing and on-road vehicles), agricultural supplies and materials necessary to provide timely preparation of fields for rental. It will also be necessary to add funding for field monitors to oversee the facility during rentals, leagues and tournament play.

Forestry Maintenance

Hazard abatement pruning on all city property, including city street ROW, City facilities, and vacant property is accomplished by the Forestry Section. While routine structural pruning is important for prolonged health of trees, reduces storm damage, and increases aesthetic appeal, due to previous budget cuts Forestry is only funded for immediate hazard abatement. The annual maintenance impact for hazard abatement pruning is calculated on a per site basis. Low use areas such as vacant lots and undeveloped parks, costs are calculated on per acre basis. For streets, City buildings, facilities and park developments, trees will need more frequent inspection and pruning. An average annual cost is calculated per tree near these high use areas.

Other Operations and Maintenance Costs

Other PARD operating impacts occur with the vertical construction including additional community centers, expansion of existing community centers, additional special facilities and new or expanded service centers. Factors in estimating the operational costs include: square footage, type of construction, use of facility and number of patrons or staff to be served, utilities and insurance (water, gas, electricity, storm water, fiber optic, IT, security), the number of rooms and special purposes of the facility which also determines furniture, fixtures and equipment (FF&E) needed to make the facility fully operational and any additional staffing requirements (regular and temporary). For reference, average annual operating costs for community centers range from \$339,951 and four and a half (4.5) authorized positions for a 10,280 square foot center, to \$385,868 and five and a quarter (5.25) authorized positions for a 20,000 square foot center for staffing to meet operational service hours. Operating

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impacts from the added or expanded facilities will also affect partner departments, such as, Property Management, IT Solutions, Human Resources and Financial Management Services.

projects Citywide. These projects include new park development and replacement of aging infrastructure in neighborhood parks, community parks and community centers. A summary of these projects is included in the table below. A complete listing of projects completed since FY 1998 is included in the Appendix.

PAST ACCOMPLISHMENTS

Since FY 2013, the Park and Recreation Department has completed \$52,743,276 in capital improvement

FISCAL YEAR	COST	DESCRIPTION
2017	\$8,357,043	Reserve park development, playgrounds, picnic shelters drainage, and road and parking improvements at 23 parks
2016	\$22,175,138	Athletic field lighting, community park development, tennis court resurfacing, playground replacement, road and parking, walks and trail projects, restroom facilities at 34 parks
2015	\$4,941,138	Athletic field lighting, playgrounds, walks and trail projects at 10 parks
2014	\$6,777,670	Road and Parking, playgrounds, drainage and erosion control, picnic shelter, trailhead and trail improvements at 15 parks
2013	\$10,492,286	Road and Parking, accessibility improvements, walks and trails, and family aquatics facilities at 14 parks

LOOKING TO THE FUTURE

Guided by the goals, objectives and level of service standards identified in the 2015 Park, Recreation and Open Space Master Plan, along with the population growth for the area, the PARD identified needs twenty (20) years into the future and maintains a list of recommended CIP projects for that planning horizon.

In 2015, the estimated population of the City of Fort Worth was 852,486. The population is projected to be 929,741 by the year 2020. This growth equates to an increase of over 15,450 people per year. In order to keep pace with this growth the City will need to add at least 100 acres of neighborhood and/or community parkland per year.

In addition to the recreation facilities listed below, the PARD will continue to monitor new trends in park and recreation development. These trends include but are not limited to outdoor fitness, senior playgrounds, pump tracks, mountain bike trails and futsal. The significant projects beyond the current 5-year CIP are:

- **Athletic Field Development:** Development of competition soccer, softball and baseball fields to address current level of service needs and meet the needs of a growing population.
- **Renovation of Existing Community Centers:** In order to address spatial deficiencies and provide equitable resources throughout the City, the following Community Centers have been

identified as requiring renovation and/or expansion: Thomas Place and Greenbriar.

- **New Community Centers:** In order to meet the level of service as defined in the 2015 Park, Recreation and Open Space Master Plan, new community centers are proposed in unserved areas.
- **Relocation of Haws Athletic Center:** The relocation of Haws Athletic Center is necessary for the development of the Trinity River Vision.
- **Replacement of Existing Community Centers:** Aging facilities have necessitated the replacement of the Diamond Hill, Sycamore, Hillside, and Fire Station community centers.
- **Community Park Development:** Implementation of park improvements identified in the master plans for the following community parks: Marine Creek Lake, Northwest, North, Harmon Fields, Mallard Cove, Chisholm Trail, Marine Creek Ranch, Cobb, Sycamore, Z. Boaz (North and South), West, Buck Sansom, Marion Sansom, Overton, Harriet Creek Ranch, Lake Como, Trail Drivers and Gateway Park (Metropolitan Park).
- **Off Leash Dog Parks:** Development of two (2) off the leash dog parks in the north and south sectors of the City.
- **Reserve Park Development:** Development of neighborhood and community parks that are currently in a “reserve” or undeveloped status.
- **Skate Parks:** Development of four (4) skate parks in the west, north, east and central sectors of the City.
- **Playground Replacement:** Replacement of playground facilities at thirty (30) parks due to age, condition and accessibility mandates.
- **Walks and Trails:** development of trail facilities to expand and provide neighborhood connectivity with the Trinity Trails system.
- **Family Aquatics Centers:** Development of four (4) family aquatics centers in the west, north, east and south sectors of the City consistent with the City-Wide Aquatic Facilities Master Plan.
- **Preservation of Open Space (Parkland Acquisition):** In order to provide close to home neighborhood and community parks and keep pace with population growth, parkland must be acquired through acquisition and Developer dedication. Additionally, the acquisition of parkland within the Central City area must be strategically considered as in many instances the per acre acquisition costs can be significant.

OVERVIEW GOLF

The Park and Recreation Department - Golf Division's mission is to work together to provide a safe and comprehensive golf program, through quality customer service, community involvement and responsible golf course management.

History

The first golf course to open as a city owned facility was Worth Hills Golf Course which resided on 105 acres southwest of the Texas Christian University Campus. The course was sold in 1961 to TCU for expansion of their campus. Z Boaz Golf Course was opened in August 1930 on land donated by the Z. Boaz family in 1926. Due to the over-saturation of the golf market and lack of community parkland, Z. Boaz closed its doors on September 30, 2012, making way for a new community park.

Rockwood Park Golf Course opened for play on September 3, 1938. The WPA (Works Progress Administration) assisted with the construction of the course as well as the rock bridge, where the original plaque commemorating their work still exists today. The City acquired Meadowbrook Golf Course in 1937 and opened it for public play in 1938. Prior to that date it had been operated as a private country club since 1920. In 1954, Dixie Golf Course was opened as a nine-hole course for the African American community. This land is currently known as Harmon Park and serves as a soccer field complex. In 1977, Sycamore Creek Golf Course, originally opened in 1932, was purchased by the City and later renovated in 1992, adding two tee boxes per hole, allowing this nine-hole course to be played as 18 holes. The Corps of Engineers land, located in far southwest Fort Worth near Benbrook Lake is home to Pecan Valley. This 27-hole course was opened in 1963 as a replacement to the Worth

Hills Golf Course and was expanded to 36 holes in 1981.

Since 1990, renovations have taken place at Sycamore Creek, Meadowbrook and Pecan Valley. In 2008, Colligan Golf Design was hired to create a Master Plan for Rockwood Park Golf Course. That plan has resulted in the construction of a new golf course where the original course resided and is scheduled for opening in June 2017.

FACILITIES

The City of Fort Worth golf system consists of 4 locations (Meadowbrook, Pecan Valley, Rockwood Park and Sycamore Creek) for a total of 87 golf holes and two driving ranges. Meadowbrook, Pecan Valley and Rockwood Park offer full food and beverage concession with Sycamore Creek offering a limited service. All courses offer tournaments and leagues, golf merchandise for resale and golf lessons (private and group). The First Tee of Fort Worth is located at Rockwood Park Golf Course and is the City's official junior golf program. A complete inventory of these facilities is included in Appendix A.

Operating Structure

In 1983, the golf division was transferred from the General Fund to an Enterprise Fund, allowing the golf division to retain all profits and invest in their infrastructure. This operating structure was effective until the mid-to-late 1990's when the golf course market became over saturated and the nation experienced the recession in the early 2000's as well as the 9/11 disaster. During this time period the reserves were depleted and the Golf Fund began incurring an annual loss. In 2014, the City Council, in an effort to provide more financial stability to Golf, approved the dissolution of the negative fund balance which was backed by a reservation from

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fund balance in the General Fund. In addition, the City restructured Golf from an Enterprise Fund to a Special Revenue Fund with an annual operating subsidy from the General Fund.

Capital Improvement Prioritization

The development of the 5-year Capital Improvement Program is based on established priorities using available debt and cash funding

CAPITAL REVENUE SOURCES

General Debt Service Funds (Bond and Certificates of Obligations)

This funding source has been used for major golf course renovations, such as the renovation of both Meadowbrook and Pecan Valley Golf Courses and most recently Rockwood Park Golf Course. In addition, beginning in FY2017, service for the ERP Financial System debt was shifted from the Golf gas lease revenue to General Debt Service in order to free up gas lease revenue for cash-funded capital maintenance.

Municipal Golf Gas Revenues

With the transfer of the current Golf ERP debt in FY2017 to the General Debt Service, a change in the Municipal Golf Gas Revenue policy was recommended to the City Council to use the debt service funds for cash-funded capital.

The new policy states:

Bonus, royalty and other natural gas- related fee revenue derived from designated golf course property, including pipeline easements and license agreements, will be allocated solely to the Golf Gas Lease Capital Project Fund.

Donations

Special Donations Capital Projects Fund

Park and Recreation

CAPITAL IMPROVEMENT STRATEGY

The Golf Division's Capital Improvement Strategy is based on infrastructure needs, market analysis, safety, facility standards and staff and public input

available for each year within the five-year program. Factors used in developing CIP priorities include: safety, infrastructure stewardship, revenue potential, high use, and unmet service needs.

The Special Donations Capital Projects fund is a repository of funds that are donated to the city by external parties, including individuals, neighborhood associations and other organizations for the express use for Capital improvements. Most recently Wadsworth Golf Charities Foundation contributed to the development of The River's Edge at Rockwood Park Golf Course.

Intergovernmental Contributions

Intergovernmental Contributions are written agreements with other government entities for the temporary use of park land for a fee that is to be used at the park where the activities occur for park improvements. The Tarrant Regional Water District is participating in the water quality with drainage improvements on the front nine of the new Rockwood Park Golf Course construction.

Summary of Unappropriated Funds

Fund Name	Unappropriated
Golf Gas Well Revenues	\$836,091
TOTAL	\$836,091

*Golf Gas Well Revenues consist of multiple revenue accounts that have restrictions based on the City's Financial Management Policy Statements.

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5-YEAR CAPITAL PLAN SUMMARY

If funding dollars are available within Golf's annual operating budget, then capital purchases or projects may be funded on a case by case basis.

The following table below includes a detailed listing of individual projects. It includes the project description and the proposed funding amount for years 2018 through 2022

5-year Capital Plan – Golf

2018-2022 Golf Division 5 Year Capital Plan	2018	2019	2020	2021	2022
Project					
Satellite Controllers Pecan Valley Hills and River	\$ 270,000				
Pump Station Replacement-Meadowbrook	\$ 200,000				
Carpet Replacement - Meadowbrook GC	\$ 25,000				
#3 Tee Work Renovation/#8 Grass Bunker - MBGC		\$ 65,000			
Tri-max Snake		\$ 30,000			
Driving Range Tee Expansion/Realignment - PVGC		\$ 75,000			
Bank Stabilization - #15 Rockwood			\$ 400,000		
Fairway Verticut Machine+Tractor			\$ 55,000		
Pro Core Aerifier			\$ 30,000		
Regrass Pecan Valley River Greens				\$ 225,000	
Clubhouse Roof Replacement - Pecan Valley				\$ 130,000	
Lake Dredging #4/#7 and #3 - Pecan Valley River					\$ 200,000
Totals	\$ 495,000	\$ 170,000	\$ 485,000	\$ 355,000	\$ 200,000
Running Yearly Totals		\$ 665,000	\$1,150,000	\$1,505,000	\$ 1,705,000
Available Funded/Unfunded		\$ 665,000			\$ 1,040,000
Funded from Current Gas Well Revenues					
Unfunded					

OPERATIONS AND MAINTENANCE IMPACT

The rebuilding of the Rockwood Park Golf Course has resulted in the increase in authorized positions on the maintenance crew by one employee. Other projects are focused on sustainability and enhanced efficiencies of existing infrastructure.

PAST ACCOMPLISHMENTS

Over the last five years, the Golf Fund and previous Bond referendums have completed \$ 6,312,703 in capital projects. Past projects were driven by the need to rehabilitate and replace existing aging infrastructure, establish operational efficiencies, and satisfy commitments with our partner The First Tee of Fort Worth.

FISCAL YEAR	COST	DESCRIPTION
2013	\$323,803	Pecan Valley Clubhouse renovation and Tournament Pavilion
2014	\$388,900	Design/Engineering – Rockwood Park Golf Course and Pecan Valley Pump Station
2015	\$0	
2016	\$4,850,000	Rockwood Park Golf Course Construction (delayed opening FY17)
2017	\$750,000	Pecan Valley irrigation pump station; Meadowbrook Clubhouse Roof

LOOKING TO THE FUTURE

In order for our facilities to compete within the golf market, continued investment into the aging infrastructure is imperative. As proven with the Rockwood Park June 2017 reopening, an investment in a renovation will result in profitability and efficiencies. Considering the volatility of gas well royalties as the only funding source available, the Golf Division may not have the ability to fund its own capital improvements and will look to other sources and upcoming bond elections.

5-year Capital Improvement Plan

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OVERVIEW

The Fort Worth Police Department, under the direction of the Chief of Police, develops and implements programs to deter crime and to protect life and property in the City of Fort Worth.

Specific departmental responsibilities include:

- Reduce violent crime and gang-related activities through enhanced enforcement activities and crime prevention programs;
- Increase safety of residents and decrease crime through Fort Worth neighborhoods;
- Increase the safety of youth and reduce juvenile crime through crime prevention and intervention programs; and,
- Enhance crime fighting and prevention tools and efforts through diverse recruitment, training and retention of high quality officers, technology and equipment and capital improvements.

The department, in conjunction with city and community stakeholders, recently created a 5-year Strategic Plan. The Strategic Plan outlines a new Mission and Vision for the department, which form the foundation and framework for the plan in total as well as the capital improvement plan.

Vision: The Fort Worth Police Department will be a national leader in law enforcement by maintaining a trusted partnership with the community, employing diverse and highly skilled professionals and implementing an innovative policing model focused on community engagement, crime prevention, advanced training, and problem solving.

Mission: The Fort Worth Police Department exists to safeguard the lives and property of those we serve, to reduce the incidence and fear of crime, and

to enhance public safety through partnering and building trust with the community.

The Strategic Plan includes the following Strategic Directions:

- Professionalism and Organizational Excellence
- Community Engagement and Partnerships
- Operational Improvements
- Technology Development and Infrastructure Expansion

Though all strategic directions are woven through the department's operations, much of the capital improvement plan is centered on Technology Development and Infrastructure Expansion. Rapid population, development and city limit growth has substantially impacted the department's ability to operate effectively using existing or reduced resources. Significant investments in capital assets/projects are critical to the ability to maintain or increase the efficiency and delivery of services the department provides to the community.

The Police Department consists of three bureaus: Patrol, Support and Finance/Personnel. Each Bureau includes two Commands with Divisions, Sections and Units under each Command. The operations and goals of each of these areas are outlined in detail in the Police Department's FY2018-2022 Strategic Plan.

CAPITAL IMPROVEMENT STRATEGY

The development and implementation of the 5-year CIP serves to define and prioritize capital projects. It identifies essential needs of the department within the framework of the adopted strategic directions by considering current and future service levels based on projected growth.

5-year Capital Improvement Plan**Fiscal Years 2018-2022**

The Police Department utilizes an internal needs assessment system to evaluate and prioritize all funding requests, both operational and capital, and an internal committee as well as Executive Staff review all outstanding needs annually to assist in budget development and long-term fiscal planning.

CAPITAL REVENUE SOURCES**Crime Control and Prevention District (CCPD)**

The Crime Control and Prevention District (CCPD), establishing a ½ cent sales tax dedicated to crime prevention, was approved by the Fort Worth community through an election in 1995. The District has since been renewed by voters in 2000, 2005, 2009, and 2014 for subsequent 5-year periods. Revenue from the ½ cent sales tax serves a vital role in providing the necessary resources to effectively implement the capital improvement plan in all categories: vehicles, facilities, equipment, and technology. The majority of the capital expenditures for the Police Department have traditionally been budgeted as Pay-Go in CCPD.

Asset Forfeiture Funds

The Police Department receives funds from the sale of assets seized in certain law enforcement activities in which the department has assisted federal and state law enforcement agencies. The process of liquidating and distributing seized assets is commonly called "asset forfeiture."

The City currently receives four types of asset forfeitures: federal, state, treasury and high intensity drug trafficking areas (HIDTA) programs. The Federal (Justice) Asset Forfeiture Program is authorized by the Comprehensive Crime Control Act of 1984, while the State Asset Forfeiture Program is authorized by Chapter 59 of the Texas Code of Criminal Procedure. The Treasury Asset

Forfeiture Program is authorized by Title 31, Section 9703 of the U.S. Code. The HIDTA Asset Forfeiture Program was created through the Anti-Drug Abuse Act of 1988. The main goals of asset forfeiture programs are to deprive criminals of property used in or acquired through illegal activities, to encourage joint operations among law enforcement agencies at various levels of government and to strengthen law enforcement. These programs require that the recipient law enforcement agency use the assets solely for law enforcement purposes and that the assets be held in a special fund subject to audit and review by the appropriate authorities.

The department is responsible for the receipt, expenditure and oversight of asset forfeitures. Prior to FY2001, revenues and expenditures budgeted from the City's asset forfeitures were held in the Special Project Trust Fund. To ensure compliance with asset forfeiture guidelines, and to improve tracking and auditing capabilities, the department began working with the Accounting Division of the Financial Management Services Department to establish separate funds for each type of asset forfeiture proceed: the Justice Asset Forfeiture Fund, State Asset Forfeiture Fund, Treasury Asset Forfeiture Fund, and HIDTA Asset Forfeiture Fund. The Police Department has traditionally used Asset Forfeiture funds as a secondary Pay-Go resource for capital expenditures. These funds may be appropriated upon receipt for permissible operating or capital expenditures according to the guidelines of each fund.

Grant Funds

The Police Department continues to prioritize the application for and execution of grant funding for applicable capital projects. Grant funds are funds that the City receives through jurisdiction

5-year Capital Improvement Plan**Fiscal Years 2018-2022**

entitlement or an application process and are awarded for use on a specific project or initiative as outlined in the grant application. Grants are typically awarded to the Police Department through federal and state agencies. The Police Grants Unit has recently added personnel in an effort to meet the stated goal of applying for and successfully managing available grants for implementation of a variety of operational and capital projects. The department expects that grants will be a Pay-Go source of revenue for various capital projects at times throughout the plan.

General Debt Service Funds (Bond Program)

Debt financing includes general obligation bonds, certificates of obligation, lease/purchase agreements, certificates of participation, commercial paper, tax notes, and other obligations permitted to be incurred or issued under state law. For the purpose of this capital plan, the Police Department proposed projects to be included in the 2018 Bond Election, which is scheduled for May 5, 2018. One facility project, the Far South Patrol Division, is currently included in the proposed bond program package. Public engagement meetings presenting the bond package are occurring through October 2017. If approved, the funding source for the Far South Patrol Division would be future debt.

SUMMARY OF PLANNED CAPITAL BY CATEGORY**Facilities**

The Police Department has a variety of facility projects that are underway or just completed. These projects include:

Currently funded/underway:

- Renovation of Tactical Center

- Renovation of West Patrol Division (Joyce)
- Construction of Sixth Patrol Division
- Renovation of 350 W. Belknap Basement
- Renovation of Previous Police/Fire Training Facility - Calvert
- Renovation of Public Safety Complex Admin Building and Warehouse

Recently completed:

- West Patrol Division, due to 2016 storm (Marquita)
- Police Heliport
- Mounted Patrol Equestrian Facility
- Bob Bolen Public Safety Complex

There are five facility guiding principles that the Police Department uses in order to plan for and prioritize facility needs. These principles are detailed in the Strategic Plan and summarized here:

- Locate, Design, and Construct to Meet Operational Needs
- Plan for Growth
- Lease Facilities Only When Operationally and Fiscally Prudent
- Harden Police Facilities to Increase Safety and Security
- Enhance Technology Infrastructure Capacity at all Facilities to Meet Operational Needs

The Police Department has re-prioritized and refined the list of impending facility projects using these principles. In order to plan for Police facility projects, it is important to understand the geographic areas of the city that are expanding each year through annexation and development, and adequately plan for this growth as call volume and the demand for services are expected to increase exponentially.

5-year Capital Improvement Plan**Fiscal Years 2018-2022**

Future Facilities

Funded: During the past decade, the far northern portions of the city experienced rapid and extensive growth, and in the next 5-7 years both the southern and western portions of Fort Worth are expected to experience similar rates of urban expansion. Far South Patrol Division, is currently included in the proposed bond program package. The project addresses the need for a new patrol facility in one of the fastest growing areas and represents a significant capital investment for the City. The future debt cost for South Patrol Division Facility is included in Property Management's 5-year Capital Improvement Plan (\$17,720,000).

Unfunded facility challenges that will occur over the 5-year CIP include the following:

The 350 W. Belknap project has a short-term solution identified (Calvert Street - the former site of the Police Academy). This project is currently underway with the Property Management Department overseeing the renovation, but still requires a long-term solution, as do replacements for North Patrol Division with the expiration of a lease, expansion of the property room and blood drying room, and need for vehicle/equipment storage and a backup EOC and communication center. In addition, the Public Safety Complex requires another phase of facility work to include a generator, soundproofing, target hardening, PSAP expansion and other items. These unfunded projects

will compete with other city initiatives for available funding over the next five years.

Equipment

The Police Department utilizes a wide variety of specialized equipment in its operational units. More than any other category, the Police Department receives requests for equipment primarily through the department's internal needs assessment system. Units are required to enter any need over \$5,000 into the needs assessment system, located on the Police Portal, with description, cost, and justification information. These needs travel up the chain of command and upon approval are heard by a cross-functional budget committee made up of civil service and civilian personnel. This committee ranks proposals as immediate, high or future needs if they are approved to be prioritized. For capital items, these rankings translate to what year they are proposed to be funded in the CIP. Executive Staff in the Police Department approve these rankings annually. The CIP also takes into consideration existing equipment that will be up for replacement based on the department's asset management system.

Below are the currently funded equipment needs for the department with their proposed years of funding. The Police Department will continue to prioritize ranked equipment needs for Pay-Go funding through the course of the 5-year CIP.

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Police

5-year Equipment Capital Plan Summary

Project Name	Funding Source	FY2018	FY2019	FY2020	FY2021	FY2022	5-Year CIP Total
Portable Remote Firing Cart	Grant Award Pending	\$12,859	-	-	-	-	\$12,859
Gas Chromatograph/Mass Spectrometers	Grant Award Pending	\$90,000	-	-	-	-	\$90,000
Hydrogen Generators	Grant Award Pending	\$15,000	\$15,000	-	-	-	\$30,000
TOTAL		\$117,859	\$15,000	\$0	\$0	\$0	\$132,859

Vehicles

The Police Department purchases and replaces vehicles primarily through the Vehicle Replacement Program in the Crime Control and Prevention District (CCPD). The Police Department formulated a vehicle replacement plan that would allow the modernization of the fleet with the goal of no assigned patrol car to have more than 100,000 miles. To maintain this plan, it is necessary to consistently purchase fleet replacement vehicles and move higher-mileage cars to units that have less demanding operational needs. The replacement plan focuses on the front-line patrol vehicles as these are operated around-the-clock with very little downtime. In addition, unmarked, undercover and specialized vehicles are replaced as needed for police operations. This plan also encompasses the last of the funding for replacement of a police helicopter.

Motorcycles are also purchased and replaced through CCPD. The Traffic Division is responsible for traffic enforcement throughout the city as well as dignitary escorts and special events. In the motorcycle unit of this division, each motorcycle is assigned to a specific officer and set up to meet their specifications including height and reach. The continued funding of the motorcycle replacement program allows for proper motorcycle rotations, which should not exceed six years or 60,000 miles. Additionally, this program allows the retention of motorcycles that have exceeded the mileage and are deemed the most reliable. These motorcycles will be retained for use as spares in training and normal operations when a motorcycle is wrecked or in the shop for scheduled maintenance. Approved CIP funding and the established vehicle rotation schedule will ensure and optimize officer safety, operational costs, and resale value.

5-year Vehicles Capital Plan Summary

Project Name	Funding Source	FY2018	FY2019	FY2020	FY2021	FY2022	5-Year CIP Total
Vehicle & Motorcycle Replacement Program	CCPD	\$10,465,504	\$10,099,000	\$10,099,000	\$10,099,000	\$10,099,000	\$50,861,504
Helicopter	CCPD	\$400,000					\$400,000
TOTAL		\$10,865,504	\$10,099,000	\$10,099,000	\$10,099,000	\$10,099,000	\$51,261,504

5-year Capital Improvement Plan

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Technology

The Police Department is committed to continuous prioritization of technological initiatives as part of the Strategic Plan. The 5-year technology capital improvement plan is included in Technology Solutions 5-year capital plan and provides a framework for the goals and initiatives identified by the department during the strategic planning and needs assessment processes. As part of the internal needs assessment process, a department Technology Committee provides support and guidance through proactive planning, research and implementation of the strategic plan initiatives and action items related to technology and technological equipment. This committee is an advisory committee that provides general overall direction for the department's technology-related initiatives.

Technology drives policy changes as new and emergent innovations play an increasingly critical role in the daily work of officers. Enhanced technology has the potential to revolutionize policing, by offering better information quickly, which allows them to design their own plans to

prevent or investigate crimes in their beats. In order to support current and future operational needs, technological improvements must be as responsive and adaptive to change as the department expects each police officer to be. The department must also continue to be aggressive in cultivating relationships with internal and external stakeholders, to identify possibilities for public/private partnerships in support of technological enhancements. Expansion of the current infrastructure is not only necessary; it is an expectation.

Additionally, staff must continue to work closely with the IT Solutions Department and Financial Management Services Department, potentially expediting the acquisition of new technology and equipment by taking advantage of applicable cooperative and/or existing purchasing agreements. Although the department has the same budgetary challenges and aging IT systems that plague other agencies, this plan annually identifies and prioritizes key equipment and technology items recommended for funding.

5-year Technology Capital Plan Summary **

**The technology projects listed below are funded in the 5-year Technology Solutions CIP

Project Name	Funding Source	FY2018	FY2019	FY2020	FY2021	FY2022	5-Year CIP Total
Mobile Data Computers	CCPD	\$1,500,000					\$1,500,000
License Plate Readers	CCPD	\$180,000					\$180,000
ESU Small Unmanned Aerial Systems (2)	CCPD	\$110,000					\$110,000
Additional Isilon Storage	CCPD	\$109,593					\$109,593
Digital Forensics Server	CCPD	\$80,000					\$80,000
Replace Pen-Link Hardware and Software	CCPD	\$80,000					\$80,000
Software - Analysis User Interface	CCPD	\$25,000					\$25,000
IA Pro for Early Intervention	CCPD	\$16,700					\$16,700

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Police

Tactical Operations Mobile Fingerprint Scanners	CCPD	\$10,200					\$10,200
In-Car Video	CCPD	\$1,176,100					\$1,176,100
Police Systems (specific projects identified during annual process)	CCPD		\$2,209,000	\$2,209,000	\$2,209,000	\$1,609,000	\$8,236,000
Total Amount Funded in IT 5-year CIP		\$3,287,593	\$2,209,000	\$2,209,000	\$2,209,000	\$1,609,000	\$11,523,593

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Property Management

OVERVIEW

Prior to FY2016, there had been a steady decrease in the amount of capital funding provided for maintenance of the City's facility assets. The FY2016 budget process was the transition year to provide more funding to support City infrastructure, focusing on maintenance of current assets before funding expansions and new construction; develop long-range debt and capital financing plans for all funds; and most importantly enhance budget accuracy. This focus on capital expenditures continued and expanded for fiscal years 2017 and 2018. Specific changes related to Capital Improvement Plans introduced during the FY2016 and FY2017 financial planning and budgeting process include the following:

1. Develop a 5-year capital funding plan to include operating and capital expenses, secured and potential funding, funding prioritization and annual spending schedules by project/budget item;
2. Increase investment in infrastructure through the use of currently available cash resources Pay-Go to pay for capital investment;
3. Provide a comprehensive financial picture through combined operations and maintenance (O&M) and capital budgeting

Consequently, the City began development of a 5-year CIP which includes identification and prioritization of current and future funding requirements for capital projects. As part of that process, capital funds were included in the FY2016, FY2017 and FY2018 budgets for Pay-Go funding to pay for capital assets and related expenses.

FACILITIES

Property Management is responsible for managing building maintenance and repair, facility planning, architectural and construction management services for City facilities. It is important to note that at this time, Property Management does not operate or maintain facilities for Water Department, Public Events, Aviation, or the Fort Worth Zoo. The table below gives a summary of the scope of the facility assets maintained by Property Management:

Number of Buildings	327
Total Facilities Gross Sq. Feet.	3,064,243
Range of Construction Dates	1850 to 2017
Total Replacement Value	\$433,690,524
Deferred Maintenance	\$33,557,822
Total Net Asset Value	\$400,132,702

CAPITAL IMPROVEMENT STRATEGY

The cost data used to determine the amount of deferred capital maintenance and to determine the amount of capital funding needed each year to maintain the assets going forward are based on using external contractors and vendors to perform the work. In FY2017, Property Management was authorized to hire a five-person construction team to self-perform as much of the capital work as they can. The entire cost of this crew, including salary, benefits, vehicles, tools, and materials is funding through Pay-Go capital projects. It is estimated that using in-house forces to perform the more routine projects, or portions of projects, will save as much as 20% of the total project cost. This will allow more capital projects to be completed for the same amount of funding, with no additional burden on the General Fund. This model was proofed successful, consequently the Property Management department requested the addition of another five-person

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5-year Capital Improvement Plan

Fiscal Years 2018-2022

construction team during the FY2018 budget process and approved as part of the City Manager's proposed budget. This expansion of in-house construction crew will produce even more cost avoidance. It is not feasible to perform more specialized work in-house, so the ultimate goal is not to eliminate all use of contractors, but rather to use the in-house workforce only for projects that can be accomplished with significant savings. If the cost of the in-house workforce is close to the cost of using contractors, Property Management will rely on the contractor workforce to minimize the City's risk during periods of economic uncertainty.

Property Management

Based on the limited existing facility inventory and assessments, there are over \$33M in known deferred capital maintenance items in General Fund facilities throughout the City. This figure is likely to change to be more reflective of the actual conditions when a complete inventory and assessment is completed within the next year. Based on current known conditions and life expectancies for existing facilities and related capital equipment, it is projected that \$13M is needed in capital replacement each year for the next ten years. The table below shows the allocation by department:

Facility Name	GSFT	RPV	Total Deferred Maintenance			Condition Index***	M&R Cost Forecast			
			Deferred Maintenance*	Degradation Cost**	Total		Avg. Annual 2015 - 2019	5-Year /RPV	Avg. Annual 2015 - 2024	10-Year
Code Compliance	61,666	\$16,450,651	\$229,034	\$0	\$229,034	1.4%	\$278,378	1.7%	\$242,872	1.5%
Fire and Police Training	88,434	\$11,876,269	\$1,187,108	\$0	\$1,187,108	10.0%	\$490,890	4.1%	\$419,842	3.5%
Fire Department	412,927	\$77,280,514	\$5,097,431	\$0	\$5,097,431	6.6%	\$2,603,020	3.4%	\$2,706,923	3.5%
ITS	20,624	\$1,958,435	\$1,001,309	\$0	\$1,001,309	51.1%	\$279,516	14.3%	\$217,376	11.1%
Leased Facilities	98,861	\$14,557,455					\$178,273	1.2%	\$154,777	1.1%
Libraries	395,963	\$91,787,724	\$4,795,771	\$0	\$4,795,771	5.2%	\$1,607,107	1.8%	\$1,511,385	1.6%
Municipal Complex	401,435	\$62,229,313	\$7,647,825	\$0	\$7,647,825	12.3%	\$2,360,255	3.8%	\$2,148,766	3.5%
Municipal Courts	39,408	\$152,699	\$37,116	\$0	\$37,116	24.3%	\$24,094	15.8%	\$35,264	23.1%
PACS	134,150	\$18,363,932	\$2,358,281	\$0	\$2,358,281	12.8%	\$713,268	3.9%	\$702,535	3.8%
PACS Community Center	405,364	\$39,758,722	\$5,374,315	\$0	\$5,374,315	13.5%	\$2,283,026	5.7%	\$2,433,949	6.1%
PACS Pools	10,439	\$1,368,855	\$50,648	\$0	\$50,648	3.7%	\$30,471	2.2%	\$19,387	1.4%
PACS Service Centers	102,847	\$3,147,609	\$1,176,360	\$0	\$1,176,360	37.4%	\$255,055	8.1%	\$254,775	8.1%
PACS Shelters	68,463	\$1,473,894	\$46,989	\$0	\$46,989	3.2%	\$120,339	8.2%	\$111,181	7.5%
Parking Garage	146,763	\$8,279,201	\$422,993	\$0	\$422,993	5.1%	\$167,293	2.0%	\$130,811	1.6%
Police	344,245	\$53,448,951	\$2,091,731	\$0	\$2,091,731	3.9%	\$836,725	1.6%	\$902,471	1.7%
Property Management	231,440	\$23,522,296	\$1,062,532	\$0	\$1,062,532	4.5%	\$705,258	3.0%	\$706,450	3.0%
TPW	66,452	\$3,000,296	\$770,138	\$0	\$770,138	25.7%	\$289,047	9.6%	\$272,738	9.1%
Total	3,029,481	\$428,656,816	\$33,349,582	\$0	\$33,349,582	7.8%	\$13,222,015	3.1%	\$12,971,602	3.0%

Failure to fund these capital repair and replacement projects at the appropriate rate through annual allocations will lead to continued degradation of capital facility assets, and result in continued reliance on the bond program to provide needed capital. The desire is to have capital Pay-Go funding

to maintain existing assets, and have the bond program focus on growth and new facilities.

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5-year Capital Improvement Plan
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Property Management

FY2018 PROPERTY MANAGEMENT CIP

The FY2018 Property Management adopted budget included total funding of \$3,320,000 for various Pay-Go

capital projects. The table below provides a breakdown of each budgeted item.

Category	Total
Recurring Facility Maintenance & Repair	\$1,821,997
Roof Repair & Replacements	\$904,003
Minor Renovation and Repair	\$594,000
FY2018 CIP Pay-Go Total	\$3,320,000

5-YEAR CAPITAL PLAN PAY-GO SUMMARY BY CATEGORY

The table below shows the FY2018 approved Pay-Go funding and the anticipated spending in each category based on the condition, age and risk associated with service failure over the next five years. This funding level is expected to address all

necessary repairs and capital equipment replacements to maintain the existing facility inventory without reliance on the bond program. Each year there will be unplanned failures and minor repairs to be made, therefore staff will adjust the priorities for these repairs as needed in real time throughout the following fiscal years.

Category	FY2018 Funding	FY2019 Need	FY2020 Need	FY2021 Need	FY2022 Need	TOTAL
Structural Repairs	\$260,000	\$505,000	\$510,050	\$515,151	\$520,302	\$2,310,503
Roof Replacement	\$862,403	\$1,616,000	\$1,632,160	\$1,648,482	\$1,664,966	\$7,424,011
Roof Coatings	\$41,600	\$10,000	\$10,100	\$10,201	\$10,303	\$82,204
Replace Fire Alarm Panels	\$208,000	\$204,020	\$206,060	\$208,121	\$210,202	\$1,036,403
Elevator Repairs and Upgrades	\$150,000	\$151,500	\$153,015	\$154,545	\$156,091	\$765,151
HVAC & Plumbing Improvements	\$1,200,000	\$1,248,000	\$1,260,480	\$1,273,085	\$1,285,816	\$6,267,380
City Hall Landscaping - Phase II	\$78,000	\$0	\$0	\$0	\$0	\$78,000
Asset Management & Digital Floor Plans	\$250,000	\$260,000	\$262,600	\$265,226	\$267,878	\$1,305,704
Energy Efficient Replacements	\$116,000	\$505,000	\$510,050	\$515,151	\$520,302	\$2,166,503
Parking Lot Repairs	\$153,997	\$255,025	\$257,575	\$260,151	\$262,753	\$1,189,501
ADA Upgrades	\$0	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$4,101,005

City of Fort Worth

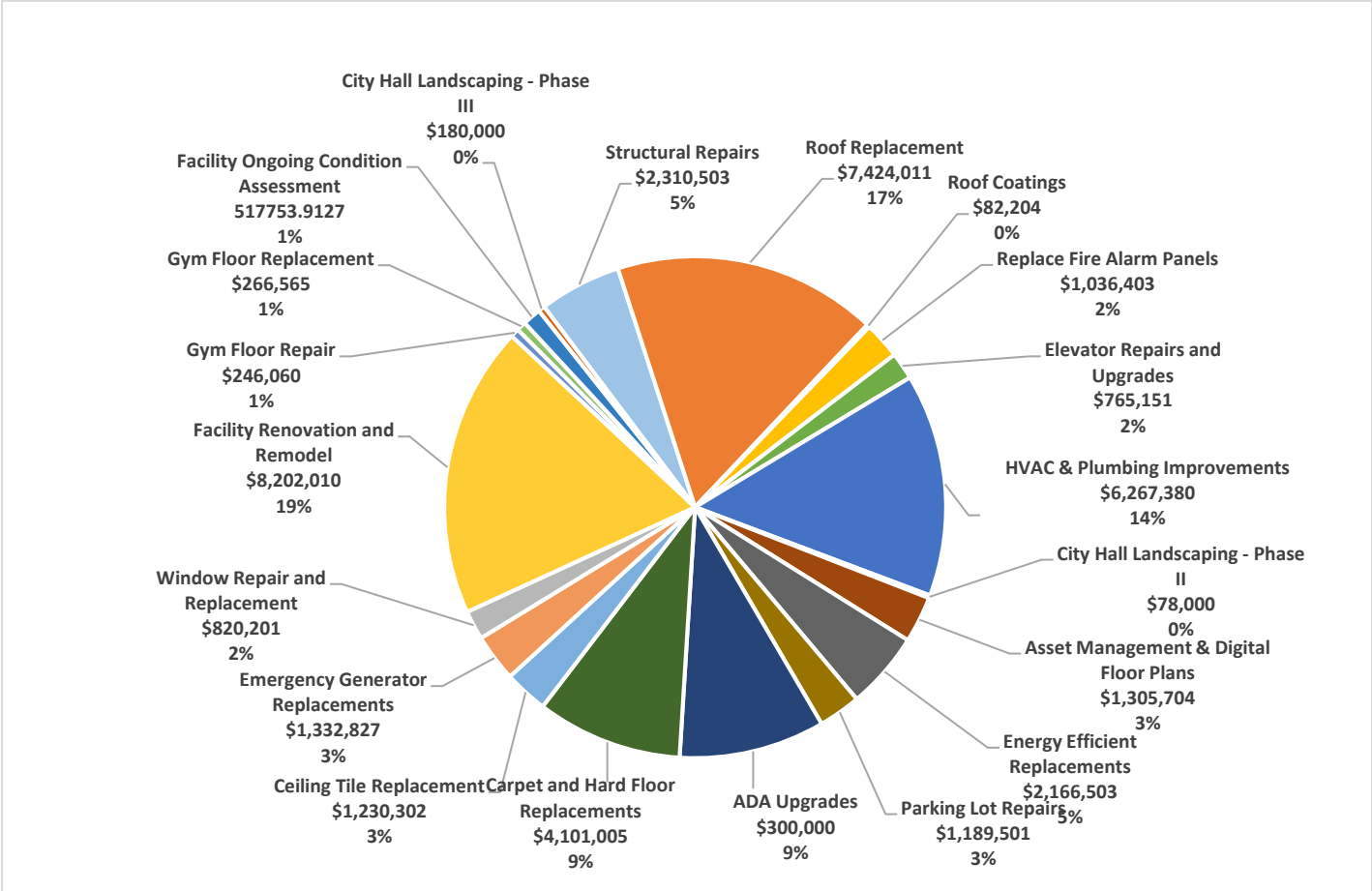
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Carpet and Hard Floor Replacements	\$0	\$1,010,000	\$1,020,100	\$1,030,301	\$1,040,604	\$4,101,005
Ceiling Tile Replacement	\$0	\$303,000	\$306,030	\$309,090	\$312,181	\$1,230,302
Emergency Generator Replacements	\$0	\$328,250	\$331,533	\$334,848	\$338,196	\$1,332,827
Window Repair and Replacement	\$0	\$202,000	\$204,020	\$206,060	\$208,121	\$820,201
Facility Renovation and Remodel	\$0	\$2,020,000	\$2,040,200	\$2,060,602	\$2,081,208	\$8,202,010
Gym Floor Repair	\$0	\$60,600	\$61,206	\$61,818	\$62,436	\$246,060
Gym Floor Replacement	\$0	\$65,650	\$66,307	\$66,970	\$67,639	\$266,565
Facility Ongoing Condition Assessment	\$0	\$127,513	\$128,788	\$130,076	\$131,377	\$517,754
City Hall Landscaping - Phase III	\$0	\$180,000	\$0	\$0	\$0	\$180,000
Total Anticipated Need	\$3,320,000	\$10,061,558	\$9,980,374	\$10,080,177	\$10,180,979	\$43,623,088
Pay-Go Funding (4% increase annually)	\$3,320,000	\$3,452,800	\$3,590,912	\$3,734,549	\$3,883,931	\$17,982,192

5-year Anticipated Capital Needs by Category



PROJECT DESCRIPTIONS BY CATEGORY

The FY2018-2022 plan includes projects organized into the following twenty categories.

- Structural Repairs:** For the past few years the Fort Worth area has experienced extreme drought followed by extremely heavy rain. As a result, soil became unstable and foundations of several City facilities have shifted resulting in damage to foundations, walls and roofs. This funding will allow Facilities to make critical repairs to City facilities, to stabilize buildings and to prevent further damage. Repairs are

needed at MLK Community Center, Bradley Community Center, Fire Station Community Center, Southwest Community Center, Sycamore Community Center and Worth Heights Community Center, South Police Division and Hazel Harvey Peace Community Center.

- Roof Replacement:** Funding would replace roofs at the following facilities: Fire Stations 2, 6 and 15, Meadowbrook Community Center, Southwest Courts, Fire Air Shop, Fire Investigations, Lake Worth storage facility as well as Rolling Hills offices & equipment

storage. All facility roofs are at or near their life expectancy and are in very poor condition. The condition of these roofs will not allow application of roof coating to extend the life of the roof.

- **Roof Coatings:** Energy saving roof coatings reduce energy/electrical consumption by reducing the heat load in the building which in turn lowers the cost of heating and cooling large facilities. The coating also extends the useful life expectancy of the roof from 20 years to 30 years. Riverside Library, Fire Station 7, Highland Hills Community Center, Fire Station 19, Fire Station 39, Fire Station 40 and Southwest Regional Library are past or approaching their useful life expectancy of 20 years. Roof failure damages building interiors and equipment which may result in costly repairs.
- **Replace Fire Alarm Panels:** All capital equipment has a life expectancy and should be maintained or replaced based on industry standards. Such failures may result in the loss of critical building systems which could limit the use of the facility by employees and citizens. Buildings with panels at the end of their life cycle include: Central Library and cable office, Diamond Hill Library, Environmental Collection Center, Fire Station #34, Fire Station #39 and East Regional Library.
- **Elevator Repairs and Upgrades:** Replace pump unit, controls and replace doors and cab of City Hall elevator.

- **HVAC & Plumbing Improvements:** Piping replacement at Gordon Swift Building and roof drain replacement at City Hall.
- **City Hall Landscaping - Phase II:** Install drought resistant landscaping and aesthetic improvements, including a marquee sign, at the City Hall entrance on Texas Street to enhance the new "front" entrance since the address was changed to 200 Texas Street in January 2017. The landscaping installed in the late 1990s had become unattractive and outdated and was removed. Without additional funding, Facilities may defer maintenance and repair of critical equipment to install drought tolerant landscaping at City Hall.
- **Asset Management & Digital Floor Plans:** Purchase system that would create digital floor plans. Many floorplans exist only in paper formats, if at all. In order to do efficient space planning and account for how all facility space is being used, digital floorplans are needed to create and maintain accurate records of facility spaces and how they are being used.
- **Energy Efficient Replacements:** Funds to replace lighting and install LED lighting at Southwest Courts and Gordon Swift Building. Also includes funding for HVAC and boilers replacements to more energy efficient systems. HVAC replacement at Environmental, Riverside Community Center, Graffiti Abatement, South Police, Fire and Police Communication; boiler replacement at East Berry Library, Northside Library and Riverside Library.

- **Parking Lot Repairs:** In FY17, PMD Facilities was tasked to perform parking lot repairs at city-owned facilities. Parking lots at City facilities have been neglected for many years. Some parking lots have deteriorated to the point that portions cannot be used during periods of heavy rain. This funding will allow for resurfacing approximately 5 to 10 parking lots, such as Marshal Lake Patrol, Brennan Ave. Auto Pound, Brennan Ave. (Park and Rec), South Police, Avenue H (East Parks and Rec), Rolling Hills (Park and Rec), KXAS Police, Fire Station #2, Fire Station #3, Fire Station #7 and Fire Station #13, depending on the severity of the damage.
- **ADA Upgrades:** Funding will address ADA compliance issues (toilets, accessible routes and other issues) at the following public buildings, in order of priority: City Hall \$500K, Gordon Swift Building \$300K and City Hall Annex \$200K. These funds will address the majority of issues at City Hall and the Gordon Swift building but will only address the ground floor of the Annex Building.
- **Carpet and Hard Floor Replacements:** Facilities flooring replacement program was eliminated from the budget in FY2010. When the program was active, carpet and hard flooring was replaced on a schedule to coincide with the end of life or when flooring became damaged or stained. Since the program was deleted, carpet has become worn and stained and hard flooring is broken giving City owned properties an unkempt appearance. As patterns and manufacturers change it becomes impossible to match existing tiles making repairs unattractive. Flooring will be replaced at City Hall, City Hall Annex, Police Auto Pound and Southwest Community Center.
- **Ceiling Tile Replacement:** Facilities ceiling tile replacement program was eliminated from the budget in FY2010. When the program was active, ceiling tile was replaced on a schedule to coincide with the end of life or when they became damaged or stained. Since the program was deleted, ceiling tiles have become stained and broken giving City owned properties an unkempt appearance. As patterns and manufacturers change it becomes impossible to match existing tiles making repairs unattractive.
- **Emergency Generator Replacements:** Emergency generators have a life expectancy of 20 years. The Emergency generators at Fire Stations 19, 23, 24 and 37 are approaching or well past their life expectancy. When equipment passes the standard life expectancy parts become obsolete and are difficult if not impossible to find and the cost of repairs become more expensive.
- **Window Repair and Replacement:** Windows at older facilities are inefficient and broken. Some facilities have wooden window frames which have rotted and must be replaced. Windows at these facilities are boarded up giving the facility an unoccupied look. Guinn School, Southwest Regional Library and Rose-Marine Theater are in need of window replacements and repairs. Nashville Police is a newer facility, but several windows leak and are in need of repair.
- **Facility Renovation and Remodel:** As the services provided by departments change over the years, and organizational changes are made,

the facilities need to evolve to accommodate the changes in use. This decision package will provide funds to be used to renovate existing space to allow new uses. Examples would include renovating the former Reprographic area to accommodate administrative uses, renovating former clinic spaces in community centers to accommodate new programs, reconfiguring existing spaces to accommodate organizational changes (merging and splitting departments), reconfiguring the basement of Gordon Swift, etc.

- **Gym Floor Repair:** Funding to refinish and restripe gym floors at four community centers. Screened and recoated every two years and refinished every ten years. Facilities have not had a program to repair gym or screen and recoat gym floors since 2014 and at that time limited funding was available. As a result, gym floors at community centers such as R. D. Evans, Sycamore, North Tri-Ethnic and Northside are in need of repairs, striping and recoating.
- **Gym Floor Replacement:** Funding to replace one community center gym floor. MLK Community Center has foundation problems which are slated for repair, if funding is available through Facilities structural repair program in FY2018. As a result of the foundation issues, the gym sub-floor has become damaged which in turn damaged the gym floor. The gym floor is wavy, and spongy in places and there are gaps between the wood planks.
- **Facility Ongoing Condition Assessment:** An inventory and high-level facility condition assessment is funded in FY2017. A more detailed assessment of all major components is

needed for more accurate replacement scheduling and budgeting. One third of all general fund facilities would have this more detailed assessment each year.

- **City Hall Landscaping - Phase III:** Install drought resistant landscaping around the perimeter of Council parking area on the north side of Texas Street and the Citizen Parking Lot on the south side of Texas Street adjacent to City Hall. The landscaping has become unattractive and outdated. Without additional funding, Facilities may defer maintenance and repair of critical equipment to install drought tolerant landscaping at City Hall.

2018 CAPITAL BOND PROJECTS

Property Management has a lead role in the development of facility projects to be considered in the 2018 Bond Program. Sponsoring departments, such as Library, Fire, Police, Parks and Recreation, etc., submit their requests for new Fire Stations, Libraries, Community Centers, etc. Property Management reviews the scope of these requests, assists in the preparation of cost estimates and helps to identify opportunities for joint use bond projects. The funding source for these projects will be future debts.

The 2018 Bond election is proposed for May 5, 2018. Included for consideration in the program are a number new and replacement facility projects such as:

- Design and construction of a new fire station in north Fort Worth
- Demolition and replacement of Fire Station #26

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- Replacement of the Wedgewood Library
- New Police sub-station in southwest Fort Worth
- Replacement of the Rockwood Clubhouse
- New community center in northwest Fort Worth,
- Replacement of Diamond Hill Community Center
- Construction of North Animal Care and Shelter Facility.

Public engagement meetings presenting these proposed facility projects along with transportation and park system improvement initiatives are scheduled to occur through October 2017, with a final list of project propositions for voter consideration developed and approved by City Council prior to the end of the calendar year.

2018 CAPITAL BOND PROJECTS AND SOLID WASTE FUND PROJECT

Project Name	FY2018	FY2019	FY2020	FY2021	FY2022	TOTAL
New Fire Station #45 (North Fort Worth - 287/35W)	\$7,800,000	\$0	\$0	\$0	\$0	\$7,800,000
Replace Fire Station #26	\$6,140,000	\$0	\$0	\$0	\$0	\$6,140,000
South Patrol Division	\$17,720,000	\$0	\$0	\$0	\$0	\$17,720,000
Diamond Hill Community Center Replacement	\$0	\$11,450,000	\$0	\$0	\$0	\$11,450,000
Northside Community Center Renovation	\$0	\$0	\$5,806,000	\$0	\$0	\$5,806,000
Northwest Community Center	\$0	\$0	\$11,350,000	\$0	\$0	\$11,350,000
Sycamore Community Center Renovation	\$0	\$0	\$2,710,000	\$0	\$0	\$2,710,000
Maintenance Compound Renovation	\$0	\$9,055,000	\$0	\$0	\$0	\$9,055,000
Hardwicke Center Renovations	\$0	\$100,000	\$0	\$0	\$0	\$100,000
Rockwood Golf Course Clubhouse	\$6,600,000	\$0	\$0	\$0	\$0	\$6,600,000
Replace Wedgwood Branch Library	\$0	\$0	\$10,525,000	\$0	\$0	\$10,525,000
North Animal Shelter	\$1,003,900	\$13,500,000	\$0	\$0	\$0	\$14,503,900
Solid Waste Administrative Office Consolidation (Fire Station #12)	\$625,000	\$0	\$0	\$0	\$0	\$625,000
TOTAL	\$39,888,900	\$34,105,000	\$30,391,000	\$0	\$0	\$104,384,900

PAST ACCOMPLISHMENTS

The Capital Appendix includes the list of projects funded in FY2016 and FY2017.

LOOKING TO THE FUTURE

One of the driving factors in the creation of the Property Management Department was the lack of a comprehensive inventory of City-owned facilities, their conditions, and a plan to properly manage these assets. It will require additional resources to conduct a thorough inventory of all City facilities, and even more resources to conduct detailed condition assessments on each of the facilities. This information is essential in order to determine future capital needs to maintain these facilities.

Property Management will pursue the implementation of an asset management software solution that allows this data to be easily collected, maintained, and queried. After successfully completing the process of determining what building assets the City owns and what condition they are in, the next logical step will be to prepare a facility master plan to determine the highest and best use for each facility, and to plan for future facility needs.

The General Fund facility footprint increased from 2.5m Sq. Ft. in FY2004 to 3.8m Sq. Ft. in FY2017, a 53% increase. However, the number of facility maintenance staff has decreased by nine since FY2004, 13% reduction with 53% footprint growth. It is worth noting that additional responsibilities continue to be added to Property Management Department without corresponding resources. Examples include municipal buildings security

initiatives, parking lot lighting, parking lot repairs, managing and maintaining leased facilities, managing non-facility equipment, etc.

To be able to properly execute our core mission of maintaining the existing facilities, Property Management needs to be provided the appropriate resources to accommodate these new responsibilities that have previously been performed by other departments.

OVERVIEW

The City of Fort Worth Transportation and Public Works Department is responsible for the development of the City's Street System encompassing its planning, design, construction, maintenance and operation. The Street System provides the foundation for the movement of goods and people throughout the City and is a key element in the development of a sound economy. The Street System serves all modes of transportation - vehicles, pedestrians, bicycles and public transportation providers, creating a mobile community that stimulates economic growth, revitalizing existing development, developing City growth centers, and building strong neighborhoods.

The City's street system includes 7,518 lane miles of streets, 423 bridges, 883 traffic signals, and over 66,000 street light fixtures. Continued investment in the street infrastructure is critical to ensure that existing assets are functioning at their desired level and that new streets and facilities are added to serve the continued economic development and growth of the City and region.

The FY2018–2022 Capital Improvement Plan totals \$450M and provides funding for the construction of new street infrastructure as well as the rehabilitation and reconstruction of existing assets.

CATEGORIES

Fort Worth's FY2018 – 2022 CIP identifies Street System improvements ranging from new infrastructure to various rehabilitation techniques. The FY2018–2022 plan includes projects organized into eleven categories, consisting of the following:

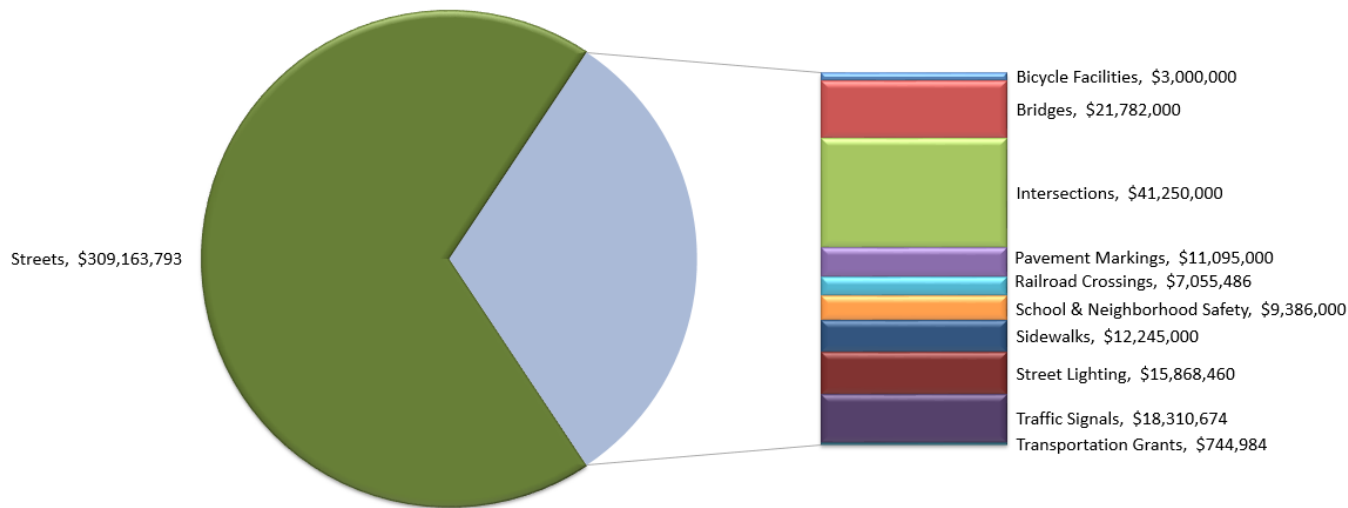
1. **Bicycle Facilities:** Construct new bicycle lanes on existing roadway segments.
2. **Bridges:** Reconstruction and rehabilitation of existing bridge structures throughout the City.
3. **Intersections:** Safety and capacity improvements at existing intersections that include roundabouts and various travel lane expansions including – through lanes and exclusive right and left turn lanes.
4. **Pavement Markings:** Rehabilitation of existing pavement markings throughout the street system encompassing lane lines, railroad crossings, bicycle lanes, cross walks, and school zones.
5. **Railroad Crossings:** Various improvements at existing railroad crossings such as quiet zones, rehabilitation of the existing crossing surface and specific safety improvements.
6. **School & Neighborhood Safety:** Establishment of new school zones; rehabilitation and upgrading of existing school zones with new signage, pavement markings, flashing beacons and neighborhood speed awareness/warning devices to better manage travel speeds in residential areas.
7. **Sidewalks:** Installation of new sidewalk segments and removal of ADA impediments along existing sidewalk sections to improve pedestrian circulation and access to transit facilities.

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Street System

8. **Street Lighting:** Installation of new street lighting in dark areas and rehabilitation of existing lighting systems.
9. **Streets:** Encompasses the construction of added capacity on major thoroughfares – new street segments and additional travel lanes on existing segments, reconstruction of failed existing neighborhood streets, and application of various rehabilitation techniques to extend the life cycle of the street such as joint/crack sealing, concrete panel/base failure repair, asphalt sealing and resurfacing, and brick street rehabilitation.
10. **Traffic Signals:** Installation of new traffic signals, system and communication network elements, and the rehabilitation of existing signals and system components.
11. **Transportation Grant Matches:** Funded from the 2014 Bond program, provides for matching funds to leverage/partner for various transportation improvements with 3rd party stakeholders.

The total \$449.9 million FY2018 – 2022 CIP investment by category is below:



CAPITAL IMPROVEMENT STRATEGY

The Street System Capital Improvement Strategy is driven by its mission to provide a safe and reliable street system for effective movement of people, goods and services. The CIP is developed from many sources within the City as well as exterior sources. These sources include:

- **Master Plans.** Master Plans are developed to provide a strategic plan for future infrastructure to be installed generally within a 20 plus year timeframe. Key System Master Plans include the North Central Texas Council of Government's Regional Mobility Plan, the Fort Worth Major Thoroughfare Plan, Fort Worth Transportation Authority Strategic Plan, Walk Fort Worth Pedestrian Plan and Bike Fort Worth Plan.
- **Collaboration with other Public Entities.** Ongoing collaboration with other public entities occurs such that transportation/street plans are coordinated and facilities integrated to create a seamless street system. Organizations include surrounding Cities and Counties, TxDOT and the Fort Worth Transportation Authority – The T.
- **Corporate Priorities.** Street System improvements are provided in support of City Council approved priority programs for the development of the City. Examples of these types of programs include the Cultural District improvements and infrastructure improvements to enhance neighborhood areas such as the Stop Six area.
- **Development Agreements/Community Facilities Agreements.** The Policy for the Installation of Community Facilities approved by the City Council provides for the participation in extending street improvements beyond those required by a proposed private sector development. Typically, these improvements encompass extending the street improvement to the next major roadway or constructing the additional lanes of the thoroughfare to provide a full street segment. Street System staff remain in regular contact with the development community to monitor upcoming needs and priorities.
- **Legislative and Regulatory Mandates.** The Federal Government through the U.S. Department of Transportation (USDOT) and the Texas Legislature through the Texas Department of Transportation (TxDOT) regulate many standards for the design and operation of associated street components. Many of these elements pertain to traffic control devices as specified in the Manual on Uniform Traffic Control Devices (USDOT) and corresponding TxDOT manual – Texas Manual on Uniform Traffic Control Devices. Compliance with these regulations is typically related to traffic control signage, pavement markings, and various forms of traffic signals.
- **Condition Assessment and Maintenance History.** Staff routinely review the operation and maintenance records of the various elements of the Street System infrastructure for rehabilitation to extend the operating life of the asset and minimize maintenance costs

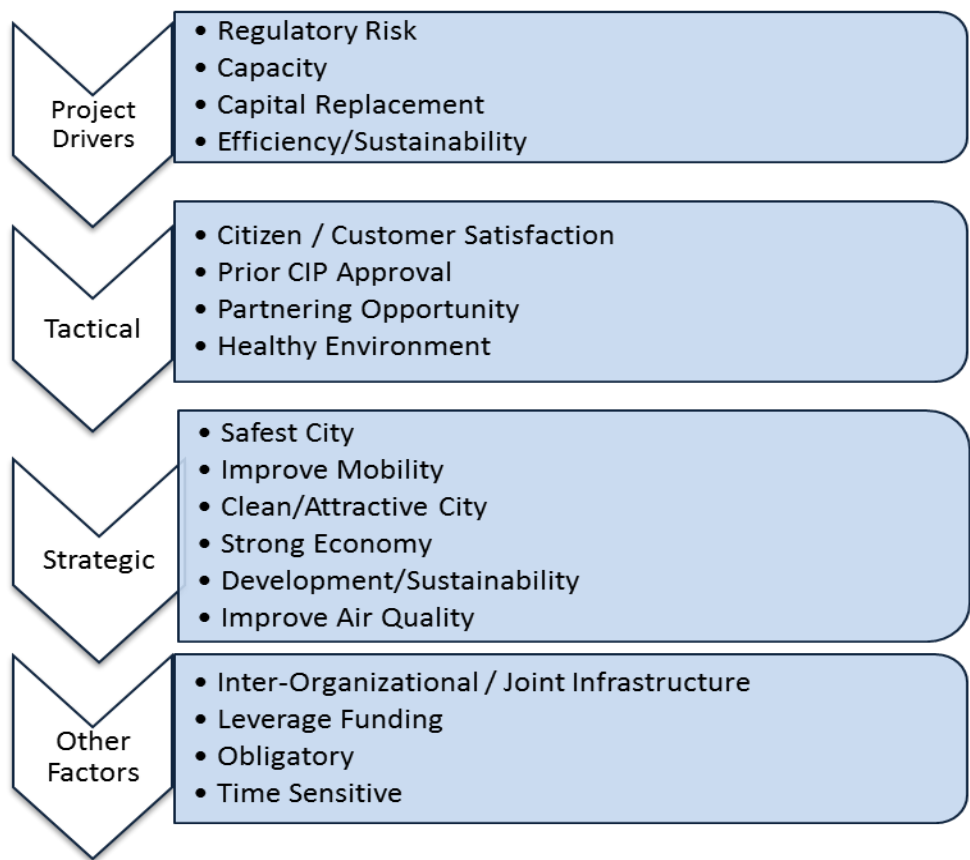
by applying appropriate techniques at the most effective time intervals. These types of projects are identified through the street system asset management platform, facility assessment studies, and the review of maintenance records to identify the appropriate rehabilitation or reconstruction technique that should be applied.

- **Coordination with Capital Improvement Programs of Other City Departments.** Streets System staff coordinate with other departments such as Water, Park and Recreation, and Planning and Development to identify areas where priorities and plans overlap so that collaborative projects can be developed that achieve multiple goals and

maximize utilization of financial resources from each party. A major work effort in this context is the development of single work efforts such that water and sanitary sewer lines are replaced at the same time the street pavement is reconstructed.

CIP Priority Criteria

The Street System CIP is directly linked to the goals of: mobility, public safety, improving neighborhoods and communities, and retaining/encouraging economic growth. The specific goals and project prioritization are aligned with citywide strategic goals as reflected in the capital project prioritization system used for the City’s Comprehensive Plan as follows:



CAPITAL REVENUE SOURCES

A total of \$449.9 million has been identified for the 5-year CIP from eight individual funds. These funds have been grouped into four categories as described below:

Pay-Go General Fund

General Fund Pay-Go capital is budgeted each year as part of the annual City budget process. This funding source is currently limited to one fund and has been programmed with a 4% growth factor year over year bringing the 5-year CIP total to \$129.3 million.

Debt

Numerous Citywide Bond Programs have been established over the years to fund a variety of Street System improvements. In addition, Certificates of Obligation (COs) and Tax Notes have also been issued for Street System improvements. The Tax Notes sold in 2017 were appropriated into projects leaving only \$21.1 million of the 2014 Bond program as debt being appropriated in FY2018.

Future Debt

Future Debt comprises the funding levels and categories that are anticipated to be in the next Bond program presented to the citizens of Fort Worth. Current planning has \$255.5 million allocated to Street System capital improvements. These funds have been programmed by Category only with no specific projects identified at this time.

Transportation Impact Fees

Transportation Impact Fees are collected in nineteen different geographic areas or Service Areas throughout the City. Current fees are deposited into one fund while a legacy fund exists for fees

collected prior to FY2016. These Impact Fees can only be spent in the Service Area they were collected from and consequently, each different Service Area has a unique identifier in the financial system. The Street System 5-year CIP programs improvements in fifteen Service Areas, totaling \$32.3 million.

Third Party Partnerships

Funding for many Street System improvements is provided by external sources or third parties. These work efforts are usually associated with individual projects and programs and are developed on a project/program basis; the City does not control the programming of the money except in the case of Gas Well Revenues. Monies from each of these partnerships is currently managed across four funds, which include Developer Contributions (generally from Tax Increment Financing Districts), Federal Grants, Intergovernmental Contributions (generally Tarrant County), and City Gas Well Revenues, totaling \$11.7 million.

Summary of Projected Capital Investment by Source

The following table provides an overview of identified revenue sources to fund the FY2018–2022 Street System CIP. The table also includes an appropriation schedule to reflect the timing of planned improvements.

5-year Capital Improvement Plan

Fiscal Years 2018-2022

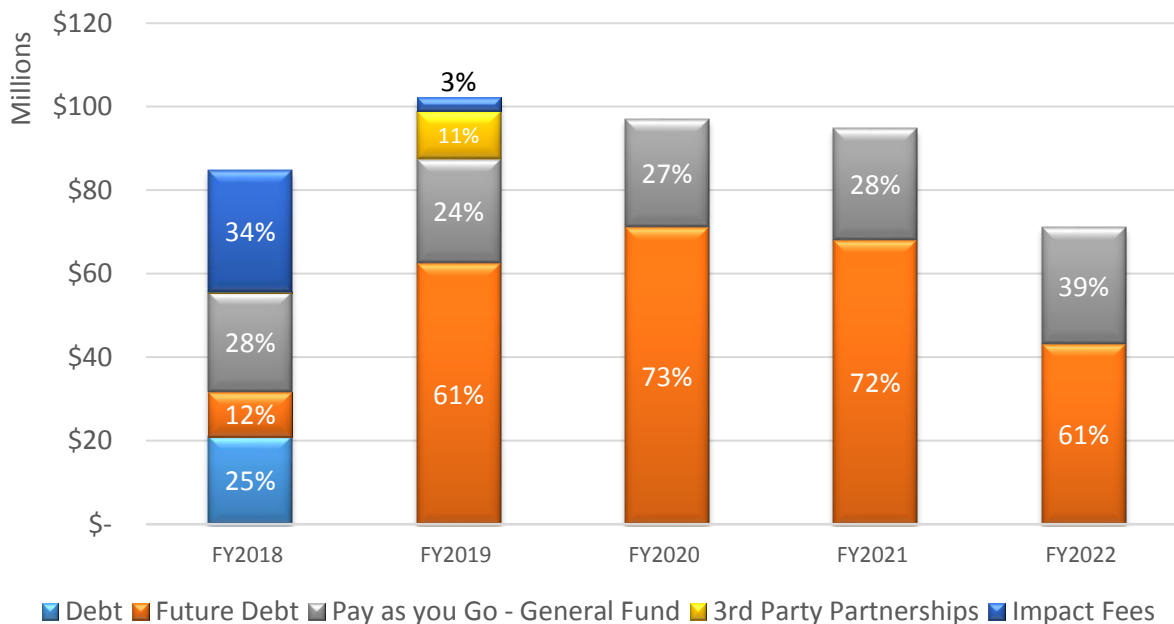
5-YEAR CAPITAL PLAN SUMMARY BY CAPITAL INVESTEMENT SOURCE

Funding Sources	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Debt	\$21,082,398	\$0	\$0	\$0	\$0	\$21,082,398
Future Debt	\$10,550,000	\$62,600,000	\$71,150,000	\$68,000,000	\$43,200,000	\$255,500,000
Pay-Go	\$23,877,001		\$25,819,000	\$26,847,999	\$27,917,999	
General Fund		\$24,829,000				\$129,290,999
3rd Party Partnerships	\$245,000	\$11,500,000	\$0	\$0	\$0	\$11,745,000
Impact Fees	\$29,033,000	\$3,250,000	\$0	\$0	\$0	\$32,283,000
Grand Total	\$84,787,399	\$102,179,000	\$96,969,000	\$94,847,999	\$71,117,999	\$449,901,397

The following chart summarizes the projected investment in the CIP by revenue source. Further details of the planned programs/projects are

provided in subsequent tables for each improvement category.

Revenue Sources 5-year Capital Plan



5-YEAR PLAN SUMMARY BY CATEGORY

Bicycle Facilities

These improvements will be part of a future Debt Program and will include the establishment of new

bicycle lanes on existing street segments throughout the City. The total estimated appropriations over the next five years is \$3 million. At this time, individual projects are not identified and a total project count is not available.

City of Fort Worth
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Street System

Category Summary: Bicycle Facilities

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Bicycle Facilities						
Bicycle Lanes	\$500,000	\$625,000	\$625,000	\$625,000	\$625,000	\$3,000,000
Locations	TBD	TBD	TBD	TBD	TBD	TBD
Grand Total	\$500,000	\$625,000	\$625,000	\$625,000	\$625,000	\$3,000,000

Bridges

These improvements include the rehabilitation of existing bridges Citywide as well as reconstruction of existing bridges where rehabilitation would not be cost effective. The City utilizes funding to partner with TxDOT in the rehabilitation of bridge structures such that Federal Bridge monies are maximized. Bridge rehabilitation encompass a variety of improvement techniques including deck

replacement, joint repair/replacement, guardrail improvements and techniques to eliminate scour within the streambed at structural foundations and retaining walls. Funding for these improvements is primarily from the 2014 Bond Program, annual Pay-Go allocations, and future Debt Programs. The total estimated appropriations over the next five years is \$21.8 million. In FY2018, 31 bridges are programmed for rehabilitation.

Category Summary: Bridges

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Bridges						
Rehabilitation	\$5,049,000	\$4,204,000	\$4,272,000	\$4,342,000	\$3,915,000	\$21,782,000
Locations	31	27	28	19	24	129
Grand Total	\$5,049,000	\$4,204,000	\$4,272,000	\$4,342,000	\$3,915,000	\$21,782,000

Intersection Improvements

Intersection improvements generally include modifying the physical configuration to improve safety and provide additional capacity. Modifications include additional through and turn lanes, introduction of roundabouts or physical

changes to improve safety for vehicles, pedestrians and bicyclists. Funding for these improvements is from Transportation Impact Fees and future Debt Programs. In FY2018, 11 projects are identified and a future Debt Program will fund additional work in this category. The total estimated appropriations over the next five years is \$41.3 million.

Category Summary: Intersection Improvements

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Intersections						
Improvements	\$3,800,000	\$8,000,000	\$8,000,000	\$8,000,000	\$5,000,000	\$32,800,000
Locations	2	TBD	TBD	TBD	TBD	TBD
Roundabout	\$1,950,000	\$0	\$0	\$0	\$0	\$1,950,000
Locations	4	TBD	TBD	TBD	TBD	TBD
Turn Lane	\$6,500,000	\$0	\$0	\$0	\$0	\$6,500,000
Locations	5	TBD	TBD	TBD	TBD	TBD
Grand Total	\$12,250,000	\$8,000,000	\$8,000,000	\$8,000,000	\$5,000,000	\$41,250,000

FY2018 Intersection Project Descriptions

- **Basswood Dr and US 377:** Preliminary design work in anticipation of future debt programs funding the completion of design and construction.
- **Park Vista Blvd and Keller Haslet Rd:** Preliminary design work in anticipation of future debt programs funding the completion of design and construction.
- **Crowley Rd and Sycamore School Rd:** Preliminary design work in anticipation of future debt programs funding the completion of design and construction.
- **Hulen St and Granbury Rd:** Preliminary design work in anticipation of future debt programs funding the completion of design and construction.
- **Kroger and SH 377:** Construction of additional turn lanes increasing capacity.
- **Sendera Ranch Blvd and Diamondback Lane:** Construction of a roundabout and drainage improvements.
- **Meacham and Mark IV Pkwy:** Construction of a roundabout and drainage improvements.
- **Trinity and SH 360:** Construction of additional turn lanes increasing capacity.
- **Weatherford Traffic Circle:** Preliminary design work to improve capacity and safety, identify cost for completion of design and construction and partnership with TxDOT in funding improvements.
- **Bryant Irvin and Oakmont:** Construction of additional turn lanes increasing capacity.
- **Boaz and Bowman Roberts:** Preliminary design work in anticipation of future debt programs funding the completion of design and construction.

Pavement Markings

Pavement Marking improvements are targeted at rehabilitating existing markings such as lane lines, crosswalks, railroad crossing markings, and bicycle lanes. Funding for these improvements is provided through annual Pay-Go allocations and future Debt

5-year Capital Improvement Plan

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Programs. The total estimated spend over the next five years is \$11.1 million. In FY2018, pavement

markings on 29 street segments will be rehabilitated.

Category Summary: Pavement Markings

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Pavement Markings						
Rehabilitation	\$2,024,000	\$2,183,000	\$2,220,000	\$2,284,000	\$2,384,000	\$11,095,000
Locations	29	18	17	21	14	99
Grand Total	\$2,024,000	\$2,183,000	\$2,220,000	\$2,284,000	\$2,384,000	\$11,095,000

Railroad Crossings

Railroad Crossings include improvements creating Quiet Zones, rehabilitating the travel surface of existing crossings and general safety improvements relative to traffic control devices and gate enhancements. Funding for these improvements is

primarily from the 2014 Bond Program, annual Pay-Go allocations, and future Debt Programs. The total estimated appropriations over the next five years is \$7 million. In FY2018, 22 Railroad Crossing improvements are programmed.

Category Summary: Railroad Crossings

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Railroad Crossings						
Quiet Zone	\$1,060,588	\$0	\$0	\$0	\$0	\$1,060,588
Locations	10	TBD	TBD	TBD	TBD	TBD
Rehabilitation	1,179,098	1,250,000	1,250,000	1,250,000	\$750,000	\$5,679,098
Locations	4	TBD	TBD	TBD	TBD	TBD
Safety Improvements	\$315,800	\$0	\$0	\$0	\$0	\$315,800
Locations	8	0	0	0	0	8
Grand Total	\$2,555,486	\$1,250,000	\$1,250,000	\$1,250,000	\$750,000	\$7,055,486

School & Neighborhood Safety

School and Neighborhood Safety projects include the establishment of new school zones and rehabilitation/upgrading of existing zones. This work effort includes new traffic control devices – signs and markings, flashing beacons, “This is your speed” automated warning signs and improvements

to sidewalks and access ramps. Funding for these improvements are from the 2014 Bond Program, annual Pay-Go allocations, Gas Well Funds and future Debt Programs. The total estimated appropriations over the next five years is \$9.4 million. In FY2018, 9 schools will have new school zones or existing school zones upgraded.

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Street System

Category Summary: School & Neighborhood Safety

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
School & Neighborhood Safety						
New Installations / Rehabilitation / Upgrades	\$1,280,000	\$2,065,000	\$2,095,000	\$2,203,000	\$1,743,000	\$9,386,000
Locations	9	TBD	TBD	TBD	TBD	TBD
Grand Total	\$1,280,000	2,065,000	\$2,095,000	\$2,203,000	\$1,743,000	\$9,386,000

Sidewalks

Sidewalk improvements encompass the installation of new sidewalk segments, removal of obstructions along existing segments and improvements to access ramps to ensure compliance with accessibility standards. Sidewalk improvements are targeted to improve pedestrian mobility and access

around schools, recreation areas, community centers, transit facilities and other high pedestrian uses. Funding for these improvements is from the Developer Contributions and future Debt Programs. The total estimated appropriations over the next five years is \$12.2 million. In FY2018, \$1.045 million is programmed for sidewalk improvements.

Category Summary: Sidewalks

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Sidewalks						
New Segments	\$1,045,000	\$3,000,000	\$3,000,000	\$3,000,000	\$2,200,000	\$12,245,000
Grand Total	\$1,045,000	\$3,000,000	\$3,000,000	\$3,000,000	\$2,200,000	\$12,245,000

Streets

Street improvements encompass four major types of activity –

1. **Major Thoroughfares** - adding capacity through constructing new street segments or the addition of new travel lanes to existing facilities. These improvements address mobility needs of the community and are focused to accommodate vehicles, bicycles, pedestrians and public transit. Funding for these improvements is primarily from Debt programs as well as from 3rd party partnerships – Federal/State/County grants, Developer Contributions, Tax Increment Financing Districts, and Transportation Impact Fees.

2. **Neighborhood Streets** - reconstruction of failed street segments. Through this reconstruction, existing streets are constructed such that curbs and sidewalks are replaced if needed and the asphalt street is totally reconstructed. In areas where no curb exists, the street is usually reconstructed with curb and appropriate drainage improvements. If sidewalks do not exist, the community is provided an option to include new sidewalks with the street improvements. Funding for these improvements is provided from Debt programs – 2014 Bond and future Debt Programs.

3. **Pavement Rehabilitation** - rehabilitation of existing streets through use of various maintenance treatments to extend the life of the

5-year Capital Improvement Plan

Fiscal Years 2018-2022

asset and minimize ongoing maintenance expenditures. Rehabilitation improvements are programmed for all improved street surfaces – asphalt, concrete and brick travel surfaces. Pavement rehabilitation includes joint and crack sealing, concrete panel/base failure repair, asphalt resurfacing and asphalt micro surfacing. Funding for these rehabilitation improvements is provide through annual Pay-Go allocations.

4. **Established Corridors** - physical enhancements to existing major thoroughfares to completely service all users - vehicles, pedestrians and bicyclists. Improvements involve reconfiguration of existing facilities to match current and projected user demands - travel lanes, sidewalks, bicycle lanes, street lighting and landscaping.

The total estimated appropriations over the next five years is \$309.2 million.

Category Summary: Streets

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Streets						
Brick Streets	\$383,000	\$398,000	\$413,000	\$429,000	\$446,000	\$2,069,000
Locations	4	5	4	6	5	24
Established Corridor	\$1,000,000	\$1,000,000	\$6,500,000	\$4,000,000	\$0	\$12,500,000
Locations	1	1	0	0	0	2
Major Thoroughfares	\$32,115,517	\$26,250,000	\$23,000,000	\$23,000,000	\$19,000,000	\$123,365,517
Locations	10	TBD	TBD	TBD	TBD	TBD
Neighborhood Streets	\$3,173,277	\$27,725,000	\$19,525,000	\$18,875,000	\$8,875,000	\$78,173,277
Locations	53	TBD	TBD	TBD	TBD	TBD
Pavement Rehabilitation	\$17,183,000	\$17,869,000	\$18,583,000	\$19,325,000	\$20,096,000	\$93,056,000
Locations	106	121	116	119	122	584
Grand Total	\$53,854,795	\$73,242,000	\$68,021,000	\$65,628,999	\$48,416,999	\$309,163,793

Major Thoroughfare Improvements – FY2018 Project Descriptions:

- **Bonds Ranch Rd - (BNSF RR to Shire Meadow):** Preliminary design work and right of way acquisition in anticipation of future debt programs funding the completion of design and construction.
- **Bailey Boswell - (FM 156 - SH 287):** Preliminary design work and alignment study in anticipation of future debt programs funding the completion of design and construction.
- **Westport; Beach/Westport:** Provides for partial design of this roadway expansion.

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- **Avondale Haslet Rd - (Willow Creek Dr to City Limit (FW/Haslet)):** Provides for partial design of this roadway expansion.
- **Cromwell Marine Creek Rd – (Boat Club Rd to Marine Creek Pkwy):** Provides for partial design of this roadway expansion.
- **Golden Triangle - (Golden Hgts - I35):** Complete alignment and roundabout design at Harmon along with roundabout construction and finalize partnership opportunities with development for buildout of the roadway segment.
- **Risinger Rd - (N. Crowley Rd. to I-35):** Provides for partial design of this roadway expansion.
- **W. 7th St – (University Dr to Bridge over Trinity):** Provides for partial design to improve mobility and safety of pedestrians, bicyclist, and vehicles.

Street Lighting

Street lighting improvements include the installation of new streetlights in areas of the community where lighting levels are below current development standards as well as rehabilitation of existing assets where poles, power cable and light fixtures have failed. Funding for these improvements is provided from the 2014 Bond Program, annual Pay-Go allocations and future Debt Programs. The total estimated appropriations over the next five years is \$15.9 million. In FY2018, 7 areas/street segments will receive street light improvements.

Category Summary: Street Lighting

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Street Lighting						
New	\$1,682,460	\$1,250,000	\$1,250,000	\$1,250,000	\$750,000	\$6,182,460
Locations	3	TBD	TBD	TBD	TBD	TBD
Rehabilitation	\$1,432,000	\$2,135,000	\$2,160,000	\$2,215,000	\$1,744,000	\$9,686,000
Locations	4	4	4	4	4	20
Grand Total	\$3,114,460	\$3,385,000	\$3,410,000	\$3,465,000	\$2,494,000	\$15,868,460

Traffic Signals

Traffic signal improvements include the installation of new traffic signals, rehabilitation and improvement to existing locations and the implementation of system and network communication components to improve traffic

signal timing optimization and overall system operations. Funding for these improvements is from the 2014 Bond Program, annual Pay-Go allocations, and future Debt Programs. The total estimated appropriations over the next five years is \$18.3 million. In FY2018, 17 intersections/corridors will receive improvements.

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Street System

Category Summary: Traffic Signals

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Traffic Signals						
Communications Network	\$683,674	\$0	\$0	\$0	\$0	\$683,674
Locations	2	0	0	0	0	2
Rehabilitation	\$1,686,000	\$4,225,000	\$4,076,000	\$4,050,000	\$3,590,000	\$17,627,000
Locations	15	8	12	11	12	58
Grand Total	\$2,369,674	\$4,225,000	\$4,076,000	\$4,050,000	\$3,590,000	\$18,310,674

Transportation Grant Matches

Citywide transportation grant matching funds for street, streetscape, bridge, intersection, sidewalk, safe routes to school, and other transportation-

related development projects. Funding for these improvements is from the 2014 Bond Program. The remaining funds for this category will be appropriated in FY2018 totaling, \$745K. In FY2018, two projects will receive matching funds.

Category Summary: Transportation Grant Matches

Program	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-year CIP
Transportation Grants						
Neighborhood Streets	\$372,492	\$0	\$0	\$0	\$0	\$372,492
Lane Miles	2	0	0	0	0	2
Safe Routes to School	\$372,492	\$0	\$0	\$0	\$0	\$372,492
Locations	4	0	0	0	0	4
Grand Total	\$744,984	\$0	\$0	\$0	\$0	\$744,984

OPERATION AND MAINTENANCE IMPACT

Street System improvements in the FY2018 – 2022 CIP are directed toward improving mobility and existing infrastructure. Rehabilitation and reconstruction improvements are directed at decreasing ongoing maintenance cost and extending the useful life of the Street System. New street segments and added capacity elements are additions to existing systems and will increase maintenance and operating costs. These new maintenance and operating costs will be low in the initial years, however, as the infrastructure ages, costs will

increase with the application of rehabilitation techniques until the useful life ends and total reconstruction is required.

PAST ACCOMPLISHMENTS

Over the last five years, Street System improvements have focused on completing projects associated with past debt programs of 2004, 2007 and 2008, and delivery of 2014 projects .

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In FY2016, \$18,111,700 of Pay-Go funding was allocated to the rehabilitation of street and traffic infrastructure, including first time funding for traffic assets such as pavement markings, street lighting and traffic signals. This Pay-Go funding was further increased in FY2017 to a level of \$23,041,468 and provided additional resources for street and traffic asset maintenance.

In FY2018 we are planning for growth of 4% in Pay-Go funding to a level of \$23,875,665 as the organization continues to invest in its infrastructure needs.

LOOKING TO THE FUTURE

As the City continues to grow and redevelop, new and expanding Street System infrastructure will be needed. This additional capacity need, coupled with the aging of the existing Street System places greater demands for rehabilitation and reconstruction. Together these two elements place greater demands for additional financial resources. The 5-year CIP is based upon continued growth in Pay-Go funding for street rehabilitation functions as well as new Debt Programs in 2018 or beyond. The City's Master Thoroughfare Plan identifies the need for many new street segments as well as expansion of existing streets to accommodate growth in development throughout the City.

The City continues to enhance the management of existing infrastructure through the development of a comprehensive asset management system for both street and traffic elements. This system will enable better identification of needed rehabilitation techniques such that the life cycle of existing assets can be extended to their greatest potential while optimizing resources.

OVERVIEW

The City of Fort Worth Aviation System is home to three world-class airports – Alliance, Meacham International, and Spinks. Owned by the City of Fort Worth, each airport offers a diverse industrial base, which makes it an attractive location for a variety of businesses. The Capital Improvement Plan is meant to serve as a tool for planning improvements which will enhance the ability to serve the general aviation community and ensure on-going maintenance is completed and resulting in continued sustainability and growth.

Background/History

The Aviation Department promotes economic activity through aeronautical and non-aeronautical spending generated by businesses and aircraft operators at the three Fort Worth Airports: Alliance Airport (Alliance), Meacham International Airport (Meacham) and Spinks Airport (Spinks). Meacham and Spinks are operated by Aviation Department staff whereas the Department contracts with Alliance Air Services to manage Alliance.

The Aviation Department is a fully self-sustaining enterprise department supported through the collection of hangar and ground lease revenue, fuel flowage fees, Alliance revenue percentage and administration building revenue. These funds are administered through the Aviation Department and are discussed below.

Aviation Department Administration is responsible for accounts payable/receivable, grants management, human resources, leasing, and accounting and budgeting for all three Fort Worth airports to varying degrees. The Operations division is responsible for the day-to-day operations of each

airport and inspects each airport to identify deficiencies and implement appropriate corrective action. The Maintenance division is responsible for maintaining airfields and airport facilities.

FACILITIES

Fort Worth Alliance Airport – Established in 1989, Alliance Airport holds the distinction of being the world's first industrial airport and is the centerpiece of a 20,000 acre master-planned development known as AllianceTexas. Alliance was built to house large industrial and cargo operators, and potentially scheduled passenger service in the future. The airport is owned by the City of Fort Worth and operated by privately-held Alliance Aviation Services, a subsidiary of Hillwood Development Company, LLC. The airport features a vast array of flight services, including general aviation, industrial/air cargo, and military aviation. The airport maintains a U.S. Customs and Border Protection office for the convenience of its on-sight businesses and users. The airport is nearly 1,200 acres and contains two concrete runways which, upon completion of the extension project, will be 11,000 feet in length.

In addition to general aviation services, Alliance serves as the southwest regional hub for FedEx which is one of the principal anchor tenants. Other major tenants include Burlington Northern Santa Fe (BNSF) Railway, Bell Helicopter Textron, the Drug Enforcement Administration, and DynCorp International. Alliance Air Services serves as the only FBO at the airport and provides: 20,000 square feet of customer services areas/office space, multiple community hangars, fuel, and based aircraft.

Fort Worth Meacham International Airport – As the city's oldest operating airport – dating to 1925 - it is situated just five miles north of downtown Fort Worth. From its humble beginnings as a 100-acre site with dirt and sod runways, the airport has grown into a premiere general aviation airport. Meacham now encompasses nearly 900 acres of land with two active runways. There are currently 73 total hangar facilities accounting for 1.5 million square feet of hangar space which house over 400 based aircraft and continues to grow.

The renovation of its main administration building has been completed. Aviation, City Code Compliance and Planning and Development staff, and other airport tenants, including one of three Fixed Based Operators (FBOs), are now located in the newly renovated building. The three FBOs are Texas Jet, Cornerstone, and American Aero. The FBOs provide a majority of the airport's fuel flowage and hangar space. Meacham's based businesses are primarily aviation-oriented and include fueling, maintenance, storage, painting, flight training, and aero-medical flights.

Fort Worth Spinks Airport – Spinks airport, located 14 miles south of downtown Fort Worth, was originally established in the early 1960s as Oak Grove Airport and remained active until its owner and founder Maurice "Pappy" Spinks died. In 1989, a ceremony was held closing Oak Grove and activating Spinks Airport, just adjacent to the west and named in his honor. It is the newest of the three Fort Worth airports and covers an area of just over 800 acres.

Spinks is made up of two runways - one asphalt surface and the other a turf surface. Its single FBO has constructed a 7,400 square foot terminal building. Currently, it has 32 hangar facilities which

house 271 based aircraft. Continuing strong growth is anticipated with as many as five new hangars being constructed over the next year. A perimeter road along its northern boundary is near completion, and the construction of a new community fire station will be completed by the fall of 2017. It is also anticipated that the completion of both the north perimeter road and installation of a fire station will spur additional development at and directly adjacent to the airport.

Spinks is home to a single FBO; Harrison Aviation, which provides the airport's aeronautical fuel as well as concierge services. Other on-sight businesses at Spinks include aviation maintenance and paint facilities, hangar storage, fueling, and flight training.

CAPITAL IMPROVEMENT STRATEGY

The development and implementation of the 5-year Capital Improvement Plan serves to define and prioritize CIP projects over the long-term. It identifies essential needs but also those initiatives which optimize operational capacity, enhance safety, and strengthen and enhance the economic aspects of each airport and the Aviation Department as a whole. It identifies upgrades and maintenance required in order to meet the needs of facility users and achieve the Department's mission to provide high-quality, cost effective facilities to meet the General Aviation needs of North Texas. This long-range plan provides the Airports, and the City, a path to support the overall needs of general aviation within Fort Worth, as well as meet the specific needs of each airport. The criteria for the plan were derived from pavement condition index (PCI) surveys of each airport, strategic communication with clients, visits to competing facilities,

5-year Capital Improvement Plan**Fiscal Years 2018-2022**

identification of aging systems and infrastructure, and discussions with airport tenants.

Alliance Airport - Recent major initiatives at Alliance include an FAA Part 150 noise study and the extension of both runways. The runway extension project is scheduled to conclude in 2018. Going forward the Alliance CIP will focus on maintenance and improvements which are directly related to the runway expansion project – improvements to shoulders, taxiways, aprons, and drainage. Other typical CIP investments include replacement of vehicles and equipment, and on-going pavement repairs and replacement.

The remaining four years of Airport Improvement Program (AIP) grant applications (2019-2022) for the runway extension is an effort to repay the North Central Texas Council of Governments (COG) for funds received early in the project. These funds were utilized for the rerouting of FM 156 and the BNSF rail line. COG provided the funding because the project was recognized as having regional transportation and logistics value. Aviation has committed to request additional funds from the FAA for repayment to the COG.

Meacham International Airport – Its most recent and significant accomplishment is the renovation of the terminal/administration building (completed in December 2016). In looking ahead, improvements will encompass the rehabilitation and replacement of a significant amount of pavement as identified in a Pavement Condition Index (PCI); the majority of it within aircraft ramp areas. Also addressed are improvements to the airport's frontage to North Main Street as phased additions; the engineering and design of the Midfield Redevelopment Area where a runway was closed in 2015, as well as

construction of a connector between Helipad I and Helipad II at the west side of the airport.

Construction finish-out of the Customs and Border Protection (CBP) suite is underway with completion anticipated for early fiscal year 2018. This facility will serve incoming international corporate and private aircraft with 18 seats or fewer. Taxiway Echo and Hangarline Project, consisting of pavement replacement through this area, are out for bid, with an estimated start of early November 2017.

Spinks Airport – Major initiatives include improving taxiway and roadway access to the airport's east side, airfield lighting upgrades, construction of hangars to increase airport revenue and sustainability, on-going pavement repairs/replacement at taxiways, runways, and aprons, and replacement of vehicles and equipment. Also essential to future planning are updates to the Master Plan. Furthermore is the environmental assessment for the construction of Runway 17R/35L extension preparation in the very near future. Purchase of six hangars at the eastside of the airport last fiscal year will provide revenue enhancement and sustainability for the facility.

CAPITAL REVENUE SOURCES**Texas Department of Transportation (TxDOT) Aviation**

Meacham and Spinks Airports both depend on grant funding from TxDOT Aviation to complete airfield projects such as runway and taxiway replacement and rehabilitation work. These funds pass through TxDOT from the FAA in the form of entitlement and discretionary grants through the Block Grant Program. Grants are provided to the airports on a 90/10 cost split; TxDOT provides 90 percent of the

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Aviation

project cost and the City is responsible for providing a 10 percent match.

Federal Aviation Administration (FAA)

Alliance, with primarily scheduled commercial/cargo operations, receives cargo entitlement and discretionary grants directly from the FAA and does utilize TxDOT Aviation for its AIP grants.

Enterprise Fund

The Aviation Department is a fully self-sustaining enterprise fund and derives its revenue from the following primary sources;

1. Building, hangar, and ground leases
2. A per gallon fuel flowage fee
3. Landing Fees at Alliance Airport

Gas Well Legacy Trust Fund

The Gas Well legacy trust fund was established to ensure that City of Fort Worth airports would have a long term and dependable revenue source in the form of interest generated by the fund. As revenue is generated by the gas wells on airport property, the revenue is split and placed in both the trust fund and also in the usable fund. The interest from the trust is utilized to complete aviation capital projects and to match AIP grants from TxDOT Aviation.

Gas Well Usable Funds

This is a proportion of gas well revenue not placed within the Trust Fund. The usable gas well account must be used on projects that will generate operating revenue for the Aviation Department to ensure long term viability and sustainability.

SUMMARY OF PLANNED CAPITAL INVESTMENT BY SOURCE

The following three tables summarize the debt service obligations and funding sources as they are expected to change over the next five years. Included are the estimated costs of Planned Capital Investments for all three airports and the amount and source of required match.

The table titled 5-year Plan Summary for Pay-Go, provides an overview of estimated project funding for Pay-Go projects (non-grant funded projects) over the next five years. Meacham and Spinks airports are the only airports that utilize Pay-Go for CIP project funding. Also included in the same table is the required operating revenue to fund these projects.

5-year Plan Summary for Pay-Go – Meacham and Spinks Airports						
PROJECT COST ESTIMATES / OPERATING REVENUE REQUIRED	FY2018	FY2019	FY2020	FY2021	FY2022	5-Year CIP Total
Total Projected Pay-Go Cost Estimates for Meacham	\$ 362,000	\$ 205,000	\$ 326,000	\$ 245,000	\$ 172,000	\$ 1,310,000
Total Projected Pay- Go Cost Estimates for Spinks	\$ 40,000	\$ 45,000	\$ 25,000	\$ 195,000	\$ 0	\$ 305,000
TOTAL PROJECTED PAY-GO FUNDS	\$ 402,000	\$ 250,000	\$ 351,000	\$ 440,000	\$ 172,000	\$ 1,615,000

5-year Capital Improvement Plan

Fiscal Years 2018-2022

CIP projects funding comes from a variety of sources. The table, 5-year Plan Summary of Funding Sources, summarizes the expected sources and amount of funding

for CIP projects at all three airports. These funding sources are inclusive of required match for FAA and TxDOT grants.

5-year Plan Summary Funding Sources

	FY2018	FY2019	FY2020	FY2021	FY2022	5-Year CIP Total
Gas Well Revenue (CIP Project and TxDOT match)	\$ 357,879	\$ 650,000	\$ 2,955,790	\$ 337,500	\$ 1,685,000	\$ 5,986,169
Land Credits (FAA Grants match)	\$ 1,509,115	\$ 2,037,255	\$ 1,517,778	\$ 1,653,889	\$ 2,300,000	\$ 9,018,036
FAA Grants	\$ 13,582,033	\$ 18,335,295	\$ 13,659,999	\$ 14,885,000	\$ 20,700,000	\$ 81,162,328
TxDOT Grants	\$ 3,220,908	\$ 5,850,000	\$ 5,056,110	\$ 3,037,500	\$ 8,595,000	\$ 25,759,518
Total Funding Sources	\$ 18,669,935	\$ 26,872,550	\$ 23,189,677	\$ 19,913,889	\$ 33,280,000	\$121,926,051

The table, Projected Required Grant Match Funds, breaks out the amount of non-federal funds required to match TxDOT Aviation grants received for CIP projects at Meacham and Spinks airports. These grants require a non-federal match equal to 10 percent of total project cost. The City of Fort Worth utilizes operating revenue and usable gas well funds to meet this obligation.

As with TxDOT grants, FAA grants require a match equal to 10 percent of total project costs from non-federal funds. Alliance Airport's grants are matched with land credits issued to the City by the FAA. These land credits were derived from the land on which much of Alliance Airport is located; the land was donated by Hillwood Development Company, LLC. The table above, illustrates the value of the land credits which will be used for match.

Projected Required Grant Match Funds

	FY2018	FY2019	FY2020	FY2021	FY2022	5-Year CIP Total
Projected Required Match Funds for Meacham	\$ 57,879	\$ 500,000	\$ 381,790	\$ 270,000	\$ 265,000	\$ 1,474,699
Projected Required Match Funds for Spinks	\$ 300,000	\$ 150,000	\$ 180,000	\$ 67,500	\$ 690,000	\$ 1,387,500
Projected Required Match Funds for Alliance	\$ 1,509,115	\$ 2,037,255	\$ 1,517,778	\$ 1,653,889	\$ 2,300,000	\$ 9,018,037
Total Match Funds	\$ 1,866,994	\$ 2,687,255	\$ 2,079,568	\$ 1,991,389	\$ 3,255,000	\$ 11,880,206

OPERATIONS AND MAINTENANCE IMPACT

Of the proposed grant funded projects in the CIP, the greater parts are for the improvement of existing airport infrastructure through maintenance, safety, security and capacity building projects. The greatest number of which are pavement replacement and maintenance projects funded 90 percent by TxDOT Aviation. As a standard practice, Aviation maintains a 20-year CIP to track condition of all public pavement areas at each airport.

PROJECT SUMMARY BY AIRPORT

Alliance Airport – Project Descriptions - Highlights

- Runway Extension: continuing the extension of Runway 16R, 16L, and Taxiway Alpha; and rehabilitation of Runway 16R/16L shoulders
- Runway Shoulders: design and construction of Runway 16L and 16R, and taxiway shoulders

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- Taxiway Foxtrot Connector: design and construction
- Taxiway Echo Demolition: design and construction
- Taxiway Papa Extension: design and construction
- Miscellaneous pavement improvements
- Airport Layout Plan (ALP) update
- Upgrade ramp lighting

Meacham International Airport – Project Descriptions - Highlights

- Taxiway Echo: construction
- Midfield Redevelopment Corridor: design/engineering
- Helipad Connector: design/engineering
- Taxiway Tango: construction
- Taxiway Juliet: design/engineering and construction
- Aprons Charlie and Delta: design/construction
- Ramp Connections: connect 51S ramp to 3W ramp with construction of perimeter road
- Gate Operator Replacement: gate 16 operator replacement/upgrade and fence replacement
- Fencing: replacement of existing with ornamental steel at the Long Avenue perimeter
- Pavement Condition Index update
- Miscellaneous hangar and pavement improvements
- Equipment: replacement of miscellaneous existing equipment
- Parking Addition: Administration Building
- Master Plan update

Spinks Airport - Project Descriptions – Highlights

- Runway: crack seal/coat/markings
- Taxiway Charlie: construction
- Lighting: upgrade airfield lighting to LED, east side T-hangars, and lighting regulator
- Land Acquisition: east side
- Environmental Assessment: 17R/35L runway extension
- 17R/35L North Runway Extension: construction
- Taxiways Foxtrot and Echo: construction
- Airport Master Plan Update
- Gate Operator: replacement
- Pavement Condition Index update
- Equipment: replacement of various existing equipment

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Aviation

ALLIANCE AIRPORT
GRANT FUNDED 5-YEAR CIP

Project Name	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
Runway 16R, 16L, Taxiway Alpha Extension	\$11,111,111	\$11,111,111	\$11,111,111	\$11,111,111	\$11,111,111	\$55,555,555
Rehabilitate Runway 16R Shoulders (Construction)	\$ 1,575,000					\$ 1,575,000
Rehabilitate Runway 16L Shoulders (Construction)	\$ 1,727,220					\$ 1,727,220
Misc. Pavement Repairs (Design/Construction)	\$ 300,000		\$ 111,111	\$ 111,111	\$ 111,111	\$ 633,333
Rehabilitate Taxiway Shoulders (Design/Construction)	\$ 161,150	\$ 1,611,500				\$ 1,772,650
Taxiway Foxtrot Connector (Design/Construction)	\$ 166,667	\$ 1,666,667				\$ 1,833,334
Taxiway Echo Demolition (Design/Construction)	\$ 50,000	\$ 500,000				\$ 550,000
Airport Layout Plan (ALP) Update		\$ 300,000				\$ 300,000
Taxiway Papa Extension (Design/Construction)		\$ 5,183,272	\$ 3,500,000	\$ 4,250,000		\$12,933,272
Upgrade Ramp Lighting (LED)			\$ 122,222			\$ 122,222
Purchase Equipment - Sweeper Truck			\$ 333,333			\$ 333,333
Runway 16L North of Taxiway Foxtrot Concrete Replacement (Design/Construction)				\$ 1,066,667	\$10,666,667	\$11,733,334
Purchase Equipment - ARFF Vehicle					\$ 1,111,111	\$ 1,111,111
FISCAL YEAR TOTALS	\$15,091,148	\$20,372,550	\$15,177,777	\$16,538,889	\$23,000,000	\$90,180,364

Funding Sources	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
FAA Grant	\$13,582,033	\$18,335,295	\$13,659,999	\$14,885,000	\$20,700,000	\$81,162,327
Land Credits (Match)	\$ 1,509,115	\$ 2,037,255	\$ 1,517,778	\$ 1,653,889	\$ 2,300,000	\$ 9,018,037
Total Funding Sources	\$15,091,148	\$20,372,550	\$15,177,777	\$16,538,889	\$23,000,000	\$90,180,364

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MEACHAM AIRPORT
5-YEAR CIP

Project Name	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
Midfield Redevelopment and Helipad Connector (Design/Construction)	\$ 378,787	\$5,000,000	\$ 3,617,900			\$ 8,996,687
Airport Master Plan Update	\$ 200,000					\$ 200,000
Parallel Taxiway Tango - Construction			\$ 8,000,000			\$ 8,000,000
Taxilane Juliet and Apron Delta (Design/Construction)			\$ 200,000	\$2,500,000		\$ 2,700,000
North Main Street Improvements - Phase 3 (Landscaping, Storm Drainage, Curb, and Sidewalk)			\$ 2,394,000			\$ 2,394,000
Apron C Taxilane (Design/Construction)				\$ 200,000	\$2,500,000	\$ 2,700,000
Runway 16/34 Pavement, Lighting, and Signage Rehab, Nav Aids and Runway Guards (Design)					\$ 150,000	\$ 150,000
Administration Building Additional Parking (Design/Construction)					\$ 730,000	\$ 730,000
FISCAL YEAR TOTALS	\$ 578,787	\$5,000,000	\$6,211,900	\$2,700,000	\$,380,000	\$25,870,687

Funding Sources	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
TxDOT	\$ 520,908	\$4,500,000	\$ 3,436,110	\$2,430,000	\$2,385,000	\$13,272,018
Gas Well Lease Capital Projects Funds	\$ 57,879	\$ 500,000	\$ 2,775,790	\$ 270,000	\$ 995,000	\$ 4,598,669
Total Funding Sources	\$ 578,787	\$5,000,000	\$6,221,900	\$2,700,000	\$3,380,000	\$17,870,687

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Fiscal Years 2018-2022

Aviation

MEACHAM AIRPORT
OPERATING PAY-GO - 5-YEAR CIP

Project Name	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
Purchase Equipment - Walk Behind Pavement Cutter	\$ 22,000					\$ 22,000
Pavement Condition Index Study - Update	\$ 40,000					\$ 40,000
Hangar 36S - Install Pass-through Garage Door	\$ 10,000					\$ 10,000
T-Hangars - Repaint	\$ 150,000					\$ 150,000
Customs - Office of Information Technology Equipment	\$ 120,000					\$ 120,000
Install High Def Camera's at North of Sound Boundary with Main Street	\$ 20,000					\$ 20,000
Purchase Equipment - Back-hoe		\$ 130,000				\$ 130,000
T-Hangar - Winterize Waterlines		\$ 30,000				\$ 30,000
Purchase Equipment - Bobcat		\$ 25,000				\$ 25,000
Purchase Equipment - Foreign Object Debris (FOD)		\$ 20,000				\$ 20,000
Purchase Equipment - Kubota Mower			\$ 16,000			\$ 16,000
Hangar 51S Connect Ramp to Hangar 3W Ramp - Complete Perimeter Road			\$ 40,000			\$ 40,000
Fence Replacement with Steel Ornamental and Mow Strip at Long Avenue			\$ 200,000			\$ 200,000
Gate 16 Replace Operator with VMAG/Toll Tag Reader, and Fencing/Gate with Black Steel			\$ 70,000			\$ 70,000
Golf Cart – Replace with Utility Cart				\$ 20,000		\$ 20,000
Purchase Equipment - Kubota				\$ 15,000		\$ 15,000
Hangar 36S - Install Pavement at North Side				\$ 100,000		\$ 100,000
Gate 39 - Replace Operator with VMAG/Toll-Tag Reader, Gate/Fence with Black				\$ 60,000		\$ 60,000
Pavement Condition Index Study - Update				\$ 50,000		\$ 50,000
Purchase Equipment - Truck #3					\$ 42,000	\$ 42,000
Purchase Equipment - Komatsu Fork Lift					\$ 70,000	\$ 70,000
Gate 1 - Replace Associated Fence and Toll-Tag Reader					\$ 60,000	\$ 60,000
FISCAL YEAR TOTALS	\$ 362,000	\$ 205,000	\$ 326,000	\$ 245,000	\$ 172,000	\$1,310,000

City of Fort Worth
5-year Capital Improvement Plan
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SPINKS AIRPORT
5-YEAR CIP

Project Name	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
Runway Crack Seal/Slurry Coat/Markings	\$ 650,000					\$ 650,000
Taxiway Charlie – Construction (Concrete)	\$ 2,000,000					\$ 2,000,000
Airport Master Plan - Update	\$ 350,000					\$ 350,000
Eastside Hangars/Adjacent Paving - Construction		\$ 1,500,000				\$ 1,500,000
Airfield Lighting Upgrade - LED			\$ 1,800,000			\$ 1,800,000
17R/35L 1000' North Extension – Environmental Assessment/Construction				\$ 675,000	\$ 3,500,000	\$ 4,175,000
Taxiway Bravo / North Extension - Remove/Construct (Concrete)					\$ 3,000,000	\$ 3,000,000
Taxiway Echo - Remove/Construct (concrete)					\$ 200,000	\$ 200,000
Taxiway Foxtrot - Remove/Construct (concrete)					\$ 200,000	\$ 200,000
FISCAL YEAR TOTALS	\$ 3,000,000	\$ 1,500,000	\$ 1,800,000	\$ 675,000	\$ 6,900,000	\$13,875,000

Funding Sources	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
TxDOT	\$ 2,700,000	\$ 1,350,000	\$ 1,620,000	\$ 607,500	\$ 6,210,000	\$12,487,500
Gas Well Lease Capital Projects Funds	\$ 300,000	\$ 150,000	\$ 180,000	\$ 67,500	\$ 690,000	\$ 1,387,500
Total Funding Sources	\$ 3,000,000	\$ 1,500,000	\$ 1,800,000	\$ 675,000	\$ 6,900,000	\$13,875,000

City of Fort Worth
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Aviation

SPINKS AIRPORT
OPERATING PAY-GO - 5-YEAR CIP

Project Name	FY2018	FY2019	FY2020	FY2021	FY2022	5-year CIP Total
Maintenance Vehicle 1/2 Ton 4x4	\$ 25,000					\$ 25,000
Airport Lighting Regulator	\$ 15,000					\$ 15,000
Purchase Equipment - Sweeper		\$ 25,000				\$ 25,000
Purchase Equipment - Pavement Cutter		\$ 20,000				\$ 20,000
Purchase Equipment - Operations Vehicle			\$ 25,000			\$ 25,000
Pavement Condition Index Study - Update				\$ 40,000		\$ 40,000
Gate Operator Replacement				\$ 60,000		\$ 60,000
Purchase Equipment - Back-hoe				\$ 45,000		\$ 45,000
East Side T-hangars - Lighting				\$ 50,000		\$ 50,000
FISCAL YEAR TOTALS	\$ 40,000	\$ 45,000	\$ 25,000	\$ 195,000	\$0	\$ 305,000

OVERVIEW

Environmental Management is responsible for operating and maintaining the Environmental Protection Fund. In using that fund, Environmental Management is charged with reducing the threat of environmental contamination and supporting sustainability through programs that meet and exceed regulatory standards while fostering air, land, and water quality and environmental compliance within the community.

Background/History

Environmental needs are not new to the City of Fort Worth nor other communities across the globe. In the early 1990s, the Office of Environmental Quality resided within the City Manager's Office to support the City's environmental efforts. The Office of Environmental Quality quickly began to see a need for funding to pay for programs and projects to meet growing environmental responsibilities while also remediating years of limited environmental oversight. As a result, in the mid-1990s, the Environmental Protection Fee was created to assist in forming and supporting one stand-alone department consolidating all environmental efforts.

The Department of Environmental Management was formed and initiated programs for air and water quality, municipal environmental compliance, public education/outreach, and departmental administration. In early 2002, the department inherited Solid Waste Services and successfully implemented once-a-week pickup of residential waste and recycled materials. By 2010, as solid waste needs grew, Solid Waste Services programs expanded to become an independent Division and transitioned into the Code Compliance Department. The Environmental Management Department was

consolidated into the Environmental Management Division and transitioned into the Transportation & Public Works Department.

As part of the FY2016 Budget, the Environmental Management Division transitioned again, from the Transportation and Public Works Department to the Code Compliance Department. The Division also experienced changes in executive staff and leadership. Despite the recent changes, the division has maintained excellence in well-organized, effective, and efficient environmental programs. Program areas for clean air and water have expanded as a result of higher regulatory standards and population growth. Land resources and facilities continue to experience environmental needs with age. In 2017, the Division took the lead on demolitions and oversight of the City's litter abatement efforts, which pose unique opportunities for rejuvenating environmental public education and outreach, overseeing a robust program to manage dilapidated structures, and leading a dynamic litter management campaign.

Fund

The Environmental Protection Fund is established from revenues generated by the environmental protection fee. By ordinance, the fee is intended to cover costs for disposal services, environmental programs, or environmental services. These dedicated funds assist the City in paying for federal and state environmental mandates, such as cleaning up contaminated abandoned property, asbestos abatement, underground storage tank compliance, stormwater management, spill response clean-up, and operation of a household hazardous waste collection facility.

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Since 1996, the monthly environmental protection fees have been:

- Apartment complexes: \$0.50 (per unit)
- Residential: \$0.50
- Duplex: \$1.00
- Commercial: \$10.00
- Multi-commercial: \$20.00
- Industrial: \$35.00
- Municipal \$0.75
- Non-profit: \$0.75

FACILITIES

Environmental Collection Center: The Environmental Collection Center, located at 6400 Bridge Street, initiated multiple, long needed repairs in FY2017, including a new roof with additional structural support to support new HVAC units, as well as garage door and grate repairs.

It should be noted that the Environmental Collection Center will move to the Solid Waste Fund in FY2018. This move is being done to allow a more comprehensive control of collections and disposal of the waste stream within the City of Fort Worth while providing our Environmental team great focus on mitigation and remediation of air, land and water quality issues.

Various City Facilities: Although no other Environmental Management Division-operated facility is listed for a CIP during this 5-year period, the Division is responsible for environmental compliance activities at all city facilities. These activities include asbestos abatement, soil and groundwater remediation, mold investigations, disposal of city-generated hazardous waste.

Environmental Management

Multiple projects within this Capital Improvement Plan reflect those responsibilities.

CAPITAL IMPROVEMENT STRATEGY

The development and implementation of the 5-year Capital Improvement Plan will insure that the environmental interests of the City are upheld.

CAPITAL REVENUE SOURCES

The Environmental Protection Fund balance serves as the source of cash funding for capital projects in order to meet the City of Fort Worth environmental needs. Over \$6.7 million is available to support the CIP plan and approximately \$4.0 million of the amount transferred will fund a portion of the FY2018 capital projects.

PLAN SUMMARY BY CATEGORY

Projects are identified in five key categories:

1. Plans
2. Site Remediation
3. Household Hazardous Waste (HHW) Collection
4. Litter Management
5. Water Quality

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Environmental Management

The following table provides an overview of proposed Environmental Enterprise Fund projects included in the 5-year 2018-2022 Environmental Plan.

CIP Summary by Category

Category	Project ID	Project Name	Project Description
PLANS	EMD.CIP.2016-1	<i>Comprehensive Environmental Plan</i>	Develop a long-range, comprehensive environmental plan for the City of Fort Worth
	EMD.CIP.2016-2	<i>Brownfields Site Remediation Plan</i>	Develop a program-specific, comprehensive environmental City of Fort Worth brownfields
	EMD.CIP.2016-3	<i>Sycamore Creek Bacteria Management Plan & Mitigation of E. coli Bacteria</i>	Develop a site-specific management plan for bacteria loading in Sycamore Creek, a 303(d) listed stream
	EMD.CIP.2017-2	<i>City-Generated Hazardous Waste Site Compliance Evaluation Project</i>	Audit and develop compliance plans for hazardous waste-generating city facilities
SITE REMEDIATION	EMD.CIP.2016-4	<i>Brennan Avenue Groundwater Remediation Project</i>	Remediate benzene and arsenic contamination on City-owned property
	EMD.CIP.2016-5	<i>Fort Worth Rifle & Pistol Club Soil Remediation Project</i>	Remediate arsenic and lead contamination on City-owned property
	EMD.CIP.2016-6	<i>Greenbriar Park Soil Remediation Project</i>	Remediate benzo(a)pyrene contamination on City-owned property
	EMD.CIP.2016-8	<i>Planned Police West Division Office Asbestos Abatement Project</i>	Abate asbestos and/or asbestos-containing materials on City-owned property
	EMD.CIP.2016-9	<i>Former KXAS Police Building Asbestos Abatement Project</i>	Abate asbestos and/or asbestos-containing materials on City-owned property
	EMD.CIP.2016-10	<i>Will Rogers Coliseum Concourse Asbestos Abatement Project</i>	Abate asbestos and/or asbestos-containing materials on City-owned property
	EMD.CIP.2016-11	<i>Convention Center Arena Asbestos Abatement Project</i>	Abate asbestos and/or asbestos-containing materials on City-owned property
	EMD.CIP.2016-13	<i>Downtown Service Center Asbestos Abatement / Leaking Underground Storage Tank Mitigation Project</i>	Remediate a leaking, underground storage tank containing petroleum fuels
	EMD.CIP.2016-14	<i>Village Creek WRF Centrifuge Asbestos Abatement Project</i>	Abate asbestos and/or asbestos-containing materials on City-owned property
	EMD.CIP.2016-15	<i>Petroleum Storage Tank Improvement Project (conversion from underground to above ground storage at City facilities)</i>	Install compliant environmental monitoring systems for 12 City-owned underground storage tanks containing petroleum fuels
	EMD.CIP.2016-23	<i>City Hall Annex and Gordon Swift Building Lead Paint Remediation</i>	Remove lead paint from City Hall Annex and Gordon Swift Buildings
	EMD.CIP.2017-3	<i>Park and Recreation James Avenue Trades Complex Former Barrack Asbestos Abatement Project</i>	Abate asbestos and/or asbestos-containing materials on City-owned property
HHW COLLECTION	EMD.CIP.2016-16	<i>Environmental Collection Center Upgrades (equipment, drainage & facility)</i>	Make site repairs to the Environmental Collection Center
LITTER MANAGEMENT	EMD.CIP.2016-17	<i>River Trash Management Control Project(s)</i>	Complete structural controls to support litter management in accordance with the Comprehensive Environmental Plan
	EMD.CIP.2016-21	<i>Litter Prevention Public Education Campaign</i>	Equip multi-media public education campaign to reduce litter through prevention
WATER QUALITY	EMD.CIP.2016-18	<i>Stormwater Reduction and Improvement Design Project(s)</i>	Complete post-construction controls to support water quality and to showcase green infrastructure for private development
	EMD.CIP.2016-19	<i>Sediment Improvement Project(s)</i>	Complete a stream restoration project to support sediment control and water quality in accordance with the Comprehensive Environmental Plan
	EMD.CIP.2016-20	<i>Household Hazardous Waste Project Update</i>	Redeploy Captain Crud and the Cruddies for expanded educational roles
	EMD.CIP.2017-1	<i>Water Field Operations Stormwater Quality Improvement Project</i>	Install on-site BMPs to reduce pollution in stormwater runoff

City of Fort Worth

Environmental Management

5-year Capital Improvement Plan

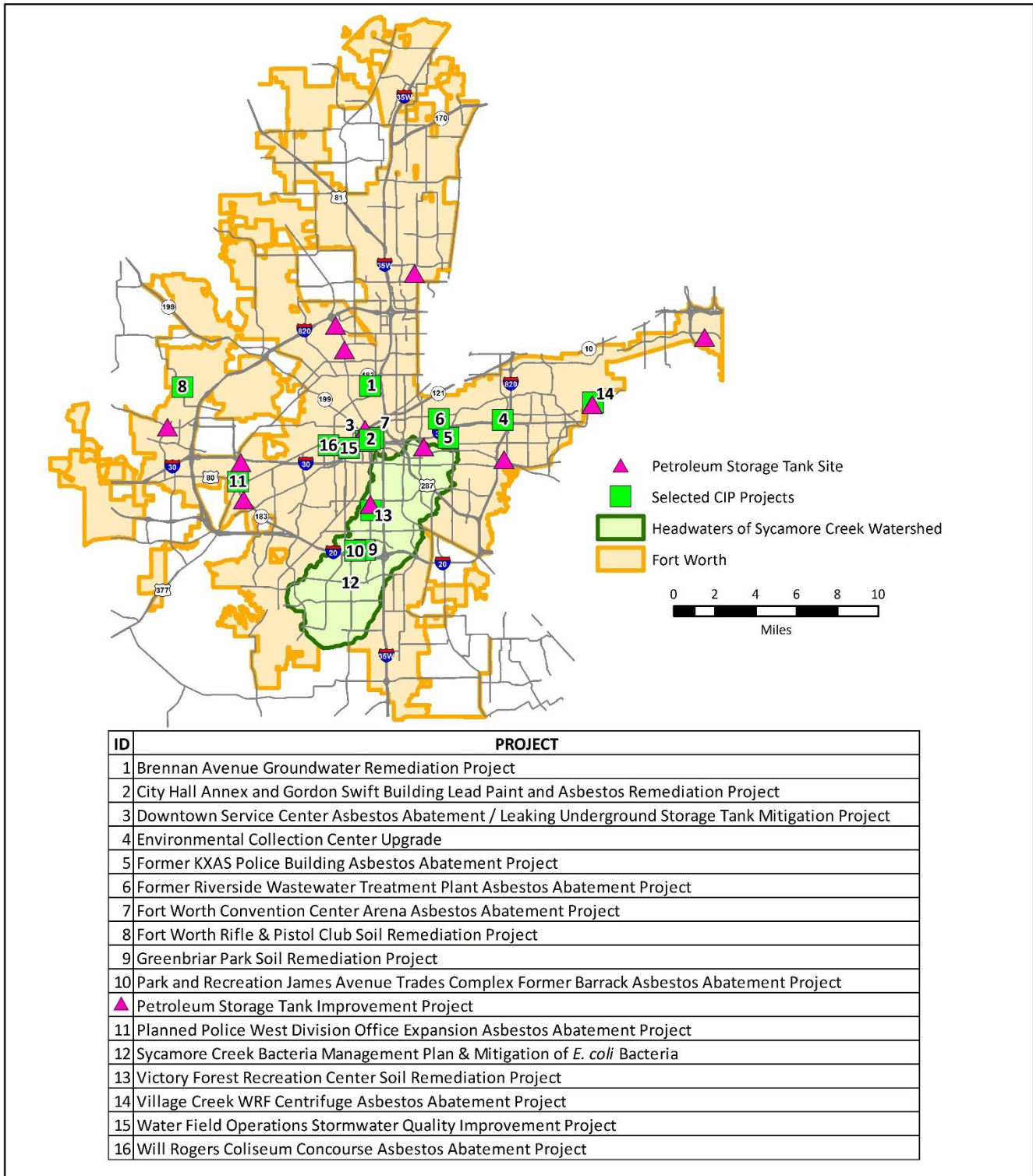
Fiscal Year 2018-2022

The following table provides an overview of proposed costs and implementation schedules for each of the projects. It is important to note that cost estimates for many environmental projects are difficult to prepare without site characterization through environmental engineering studies.

5-YEAR CAPITAL PLAN

Projections for the Environmental Fund					
PROJECTED CIP EXPENSES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
<i>Comprehensive Environmental Plan</i>					
<i>Brownfields Site Remediation Plan</i>			\$ 200,000		
<i>Sycamore Creek Bacteria Management Plan & Mitigation of E. coli Bacteria</i>		\$ 70,000	\$ 200,000	\$ 200,000	
<i>Brennan Avenue Groundwater Remediation Project</i>		\$ 295,000	\$ 425,000	\$ 275,000	\$ 125,000
<i>Fort Worth Rifle & Pistol Club Soil Remediation Project</i>		\$ 165,000	\$ 250,000	\$ 150,000	\$ 200,000
<i>Greenbriar Park Soil Remediation Project</i>					
<i>Planned Police West Division Office Expansion Asbestos Abatement Project</i>					
<i>Former KXAS Police Building Asbestos Abatement Project</i>		\$ 125,000	\$ 125,000		
<i>Will Rogers Coliseum Concourse Asbestos Abatement Project</i>					\$ 135,000
<i>Village Creek WRF Centrifuge Asbestos Abatement Project</i>					
<i>Convention Center Arena Asbestos Abatement Project</i>					\$ 985,000
<i>Downtown Service Center Asbestos Abatement / Leaking Underground Storage Tank Mitigation Project</i>					
<i>Petroleum Storage Tank Monitoring System and Improvement Project (conversion from underground to above ground storage at City facilities)</i>		\$ 500,000	\$ 125,000		
<i>Environmental Collection Center Maintenance</i>					
<i>River Trash Management Control Project(s)</i>				\$ 500,000	
<i>Stormwater Reduction and Improvement Design Project(s)</i>					
<i>Sediment Improvement Project(s)</i>					
<i>Household Hazardous Waste Project Update</i>			\$ 45,000		
<i>Litter Prevention Public Education Campaign</i>			\$ 75,000		
<i>Street Sweepers</i>					
<i>City Hall Annex and Gordon Swift Lead Paint and Asbestos Remediation Project</i>					
<i>Water Field Operations Stormwater Quality Improvement Project</i>				\$ 75,000	\$ 200,000
<i>City-Generated Hazardous Waste Site Compliance Evaluation Project</i>				\$ 85,000	\$ 45,000
<i>Park and Recreation James Avenue Trades Complex Former Barrack Asbestos Abatement Project</i>			\$ 50,000	\$ 50,000	
TOTAL	\$ -	\$ 1,155,000	\$ 1,495,000	\$ 1,335,000	\$ 1,690,000

Distribution of Select Environmental Management CIP Projects



PROJECT DESCRIPTIONS

1. Brownfields Site Remediation Plan

Within the Environmental Management Plan, the Brownfields Site Remediation Plan supports and guides brownfields program management and supports long-range efforts for site clean-up, beautification, and reuse/redevelopment options.

2. Sycamore Creek Bacteria Management Plan & Mitigation of *E. coli* Bacteria

Sycamore Creek is currently on the federally-required Texas 303(d) list for bacteria impairment. In order to remove Sycamore Creek from the list and work towards improving the water quality of the creek, TCEQ will conduct a TMDL (Total Maximum Daily Load) assessment for the creek and, then, likely incorporate the watershed into the existing Greater Trinity River Bacteria Implementation Plan, as approved, December 11, 2013. A stream-specific watershed management plan is needed to assess and guide strategies to minimize or eliminate bacteria loads. Examples include: rerouting sanitary sewer pipelines from the floodplain, wildlife control/mitigation, and maintenance of sanitary sewer overflows. The sources of the bacterial load in Sycamore Creek likely come from a variety of sources including, wildlife (waterfowl and small mammals), and sanitary sewer infiltration/inflow.

3. Brennan Avenue Groundwater Remediation Project

The Brennan Avenue site consists of the current FWPD Impound Yard, TPW-Street Services Division operations, Code Compliance Solid Waste Drop-off Station, and the Property Management Department Gasoline Fuel Storage Facility. Excessive levels of benzene, a known carcinogen

found in petroleum products (e.g., gasoline), and arsenic, another known carcinogen and naturally-occurring heavy metal present in the groundwater have been identified. Probable sources of benzene contamination include historical fuel releases from previously-existing underground storage tanks associated with the Brennan Service Center and additional subsurface soil contamination from historic usages in the early 1900s. The contaminated groundwater is impacting the surface waters of the Trinity River thus triggering required remediation efforts per state law.

4. Fort Worth Rifle and Pistol Club Soil Remediation Project

The former Fort Worth Rifle and Pistol Club site was an active pistol, rifle, and shotgun range from approximately 1950 to 1999. There are various backstop and side berms located throughout the property that were used to contain used rounds. The shotgun ranges are open spaces with various wooded areas. Lead contamination originating from the spent bullets and shot exists in the remaining backstop berms and in the shotgun ranges across the project site.

5. Former KXAS Police Building Asbestos Abatement Project

The former KXAS television project site was acquired by the City of Fort Worth for the purpose of providing additional office and operating space for FWPD Special Operations Units. The site historically served as KXAS – Channel 5 television studios. An asbestos survey was conducted in 2014 and identified 58,000 square feet of asbestos-containing building materials located inside the building.

City of Fort Worth

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6. Will Rogers Coliseum Concourse Asbestos Abatement Project

The Will Rogers Memorial Coliseum concourse areas contain approximately 48,000 square feet of asbestos-containing building materials including vinyl floor tile and ceiling textures. Removal of the existing asbestos-containing building materials will be in accordance with state law.

7. Fort Worth Convention Center Arena Asbestos Abatement Project

The Fort Worth Convention Center Arena area contains approximately 94,000 square feet of asbestos-containing building materials, which requires removal prior to any renovation or demolition work. Removal of the existing asbestos-containing building materials will be in accordance with state law.

8. Petroleum Storage Tank Improvement Project (conversion from underground to above ground storage at City facilities)

Locations:

1. Fire Station 10
2. Fire Station 14
3. Fire Station 24
4. Fire Station 25
5. Fire Station 30
6. Fire Station 31
7. Fire Station 32
8. Fire Station 33
9. Z-Boaz
10. Village Creek WRF
11. Police Admin. on Belknap St.
12. Meacham Airport
13. Southside Service Center
14. Water Service Center

Environmental Management

The City of Fort Worth Property Management Department is currently tasked with providing the fleet of City of Fort Worth vehicles fueling services through the strategic placement of aboveground (AST) and underground storage tanks (UST) located at various City-owned facilities. The Code Compliance Department Environmental Management Division is responsible for ensuring these sites are in regulatory compliance with state law. Several of the sites are currently equipped with outdated or obsolete automatic tank gauging and fuel monitoring systems and have occasionally malfunctioned creating regulatory compliance issues.

9. River Trash Management Control Project(s)

The City's on-going effort to protect against litter and aquatic trash can be supported by structural controls. Structural controls benefit water quality by reducing litter which can enhance survivability of bacteria in the water ways. Additionally, litter impacts drainage and its removal can alleviate localized flooding. Locations will be chosen based on the amount of debris found after a significant rain event as well as the location's accessibility for litter removal.

10. Household Hazardous Waste Project Update

Captain Crud and the Cruddies were developed over 20 years ago to support the City's new household hazardous waste (HHW) collection program and meet the public education component of the City's state permit for stormwater. Captain Crud would go on to be used on vehicle wraps and in educational materials, such as coloring books, highlighting the environmental impact of HHW, especially in regards to water quality. Although still popular with the children of Fort Worth and the surrounding communities who contract with the City for HHW

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services, Captain Crud and the Cruddies are overdue for an updated look and program revitalization to remain relevant as education messages remain but methods and media change.

11. Litter Prevention Public Education Campaign

Renewed emphasis on litter abatement and litter prevention in the City of Fort Worth includes a wide-reaching, multi-media public education and outreach campaign. The campaign is intended to reach all ages and demographics using multiple communication platforms including traditional and social media, educational programs, and public engagement events.

12. Water Field Operations Stormwater Quality Improvement Project

The Water Department's Field Operations stages its fleet of dump trucks, backhoes, and other heavy equipment in an area that is primarily covered in earthen materials. Leaking fluids and spills from the equipment runs easily offsite into the nearest storm drain inlet, which leads directly to the Clear Fork of the Trinity River. This project addresses these stormwater concerns by improving the overall

Environmental Management

stormwater quality leaving the site by capturing pollutants before they flow offsite and into the river.

13. City-Generated Hazardous Waste Site Compliance Evaluation Project

The City currently has approximately 60 physical locations which periodically generate hazardous waste thus triggering state and federal requirements for proper disposal. This project will identify each site and evaluate the waste characteristics of each as it relates to the compliance with applicable state and federal regulations.

14. Park and Recreation James Avenue Trades Complex Former Barrack Asbestos Abatement Project

The Park and Recreation Trades Complex consists of two, two-story World War II era barracks which are now slated for demolition. Prior to demolition, the buildings will require asbestos abatement. It is estimated that each former barracks contains approximately 14,000 sq. ft. of asbestos containing materials for a total of approximately 28,000 sq. ft. of asbestos-containing vinyl floor tile, sheetrock, popcorn ceiling texture, and joint compound, requiring removal.

PAST ACCOMPLISHMENTS

Completed Projects from CIP Fiscal Years 2016 and 2017

EMD CIP Completed Projects			
Project ID	Project Name	Project Description	Final Cost
EMD.CIP.2016-7	<i>Victory Forest Recreation Center Soil Remediation Project</i>	Remediate benzo(a)pyrene contamination on City-owned property	\$75,000
EMD.CIP.2016-12	<i>Environmental Resource Center Leaking Underground Storage Tank Mitigation Project</i>	Remediate a leaking, underground storage tank containing petroleum fuels	\$20,000
EMD.CIP.2016-22	<i>Street Sweepers</i>	Purchase 4 street sweepers, 2 large and two small to assist in City abatement efforts	\$1,300,000

OVERVIEW

Municipal Parking is under the direction of the Fort Worth Municipal Parking Program in the Transportation and Public Works Department. Responsibilities include the operation of parking facilities that support the needs of the Will Rogers Memorial Center (WRMC), the Fort Worth Convention Center (FWCC) and the City Hall Complex (CHC) as well as the general public parking needs in the Central Business, Cultural, Hospital and University Districts. Municipal Parking includes four garages: Western Heritage, Houston, Commerce and Taylor; 20 surface lots; and 2,800 on-street metered parking spaces. In total Municipal Parking manages over 11,000 parking spaces.

CAPITAL IMPROVEMENT STRATEGY

The need for capital improvement is fundamentally driven by the need to do the following;

- Improve operational efficiency which reduces operating cost
- Better customer service and access to real time information
- Reduction in customer process times and improve access to parking
- Generate additional revenue and reduce cost to develop a sustainable fund which can continually add new value to our customers

CAPITAL REVENUE SOURCES

The MPF is supported by fees paid by the users of metered spaces, surface lots, parking garages and

the lease of retail office space. The combined revenue stream across these assets at existing rates is just sufficient to cover operational costs and to service debt. All fines associated with parking tickets are deposited to the General Fund in support of the Municipal Court.

CATEGORIES

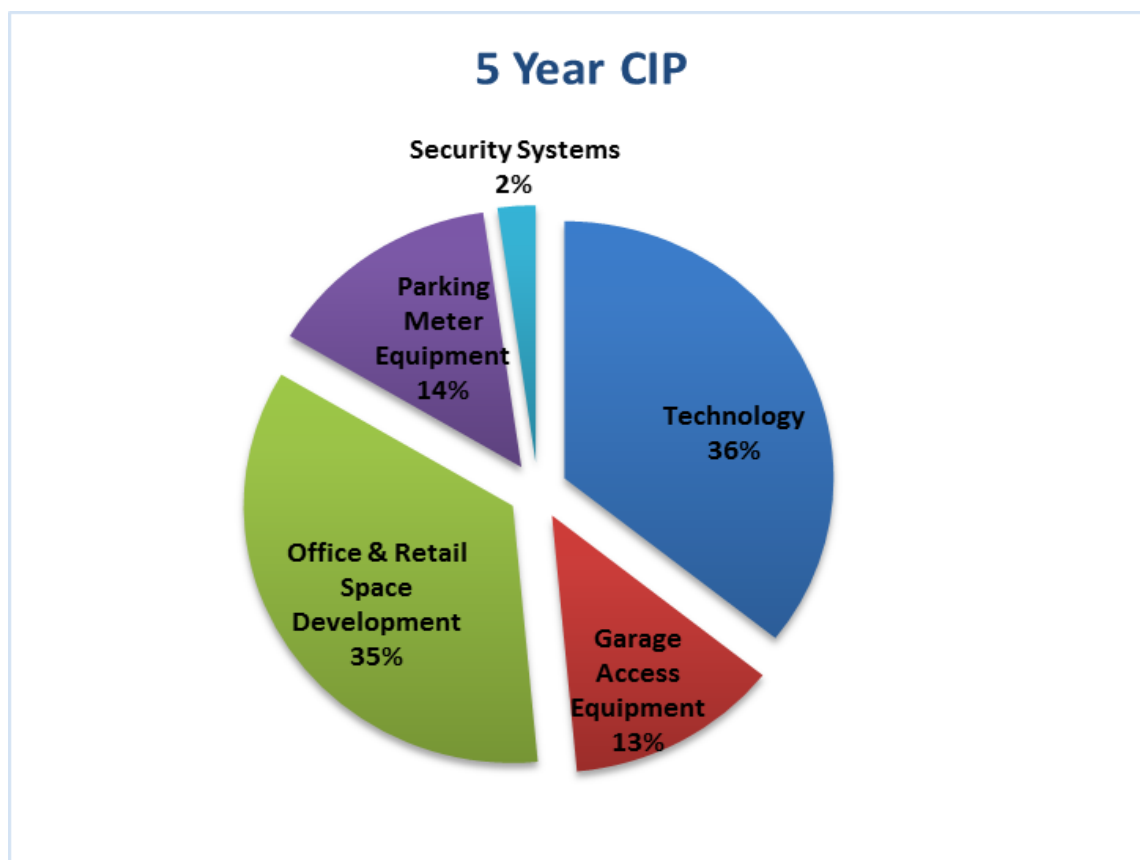
The Municipal Parking FY2018-2022 CIP invests in three general categories:

- **Will Rogers Memorial Center Parking System (WRMC)** Projects focus on improving the customer parking process taking into consideration the wide variety of needs (recreational vehicles, trailers, farm vehicles, buses, commercial rigs) in this multi-purpose event center including cultural, sporting, equestrian, and livestock events serving in excess of 2 million visitors per year.
- **Fort Worth Convention Center Parking System (FWCC)** Projects focus on improving the customer parking process (garage automation, multiple payment modes, use of technology to cut process times in periods of high demand) for the Convention Center Facility where the focus is on conventions, meetings and exhibits.
- **Municipal Parking Operations (MPO)** Projects focus on maximizing and improving the use of scarce on-street parking resources and off-street garages and lots (payment technology, occupancy detail and guidance technology) simplifying and shortening all aspects of the customer parking process.

5-year CAPITAL PLAN SUMMARY BY CATEGORY

Category	Project	FY2018	FY2019	FY2020	FY2021	FY2022	Total
WCC	Commercial Retail Space	200,000	150,000	73,224			423,224
FWCC	Flex Scan Readers					30,000	30,000
MPO	Parking Station Expansion	90,000	35,000				125,000
MPO	Enforcement Handhelds	50,052					50,052
MPO	Guidance & Occupancy App	30,000					30,000
WRMC//FWCC	Pay by Phone App – Garages	70,000					70,000
MPO	Taylor Str. Garage Automation				60,628		60,628
FWCC	Security System Expansion	28,000					28,000
MPO	Parking Meter Equipment	35,000					35,000
	Total	503,052	185,000	73,224	60,628	30,000	851,904

FY2018-FY2022 CIP Investment by Sub-category



2018 Planned Appropriation Summary

- **Commercial Retail Space** - \$200k – Development of Houston Street retail space based on tenet needs in the Houston Street Garage.
- **MPS Parking Stations** - \$90k – Purchase and installation of on-street parking stations.
- **Enforcement Handhelds** - \$50k – Ticket writer units. See detail under Parking Enforcement Handheld Electronic Ticket Write Units.
- **Guidance and Occupancy System** - \$30k – Development and purchase of application.
- **Pay by Phone Garages** - \$70k – Development and purchase of app and garage upgrades.
- **Security System** – \$28k - Camera's for Houston Street Garage
- **Parking Meters** - \$35k – Purchase new parking meters.

FWCC Parking System Improvements

The parking system at the FWCC consists of two multi-level parking garages, the Commerce Street Garage (CSG) and the Houston Street Garage (HSG). The CSG was purchased from Tarrant County in 1997. The six-level garage has 750 parking spaces.

In 2013, the exit and entry traffic flow was reversed and the parking technology was upgraded to improve efficiencies and reduce costs in operating the parking facility. The CSG is currently undergoing a Facility Condition Review which may

result in a number of findings that recommend additional action for the medium to long term. Results of this review should be available by the end of calendar year 2017 and could potentially be funded by savings from debt refinancing or future fee schedule adjustments.

The HSG has 1,054 parking spaces on eleven levels and provides parking for Fort Worth Convention Center, overflow parking for Omni Fort Worth Hotel and monthly parking for City employees and employees of surrounding businesses.

Commercial Retail Space Development

To continue the work already done on the west side retail space and to aid in the completion of the east side retail space, \$423,224.01 has been identified within the remaining funds in the MPF for this purpose. The development and subsequent lease of the Houston Street Garage east side retail space and the lease of the west side retail space are the final steps to be completed to start realizing a revenue stream from the lease of the 18,000 SF of space in the Houston Street Garage.

A Request for Proposal (RFP) was completed in FY2016-2017 which resulted in the selection of TIG Real Estate for the property management section of the RFP CBRE for the commercial retail marketing of this space. Net revenue from this operation would be another source to support the MPF in the effort to pay down and service debt and potentially reduce the need to increase parking rates in the garages which support the Convention Center.

Flex-Scan Readers

These readers are omnidirectional image scanners and can read barcodes on tickets from a variety of materials (tickets, hangtags, cell phones). Current barcode technology is outdated and offers a multiple

step process that requires the customer to execute a number of steps to complete each transaction thus lengthening the cycle time.

New readers will retrieve additional data such as serial numbers, expiration dates and other information to accommodate a variety of options such as online parking coupons to allow at home printing or coupon potential at exit, electronic mobile passes or pre-printed passes for special events with a defined life span. The addition of this equipment and technology to the Houston and Commerce St Garages would be a huge benefit to our customers. The cost of this system is \$30,000.

Detailed Municipal Parking Services Improvements:

The Municipal Parking Services consists of the Parking Meter Operation, Parking Compliance, Taylor Street Municipal Garage and Surface Lots. Projects to be completed in this plan include the following:

On-Street Parking - Pay Station Expansion

The recent growth in the past five years in the Cultural District, Hospital and University District as well as the Central Business District requires new parking infrastructure to enable more efficient allocation of scarce on-street parking resources. The first step in this process is installation of pay stations in these areas, a sustainable and highly effective space allocation process. Funds are slated for the installation of pay stations in this area covering about 150 on- street parking spaces and costing \$125,000. This expansion will return in excess of \$100,000 in net revenue per year.

Parking Enforcement Handheld Electronic Ticket Writer Units

Implementation of a new citation system will replace paper based ticket writing with electronic citation units that can transfer citation information instantaneously to the Municipal Court and shorten the citation process from multiple weeks to within an hour. The estimated cost of this project is \$51,000.

The transition to these units will also improve the accuracy throughout the citation process with preloaded detail that will reduce the process time of each citation all the way through the process also improving accuracy of information in the Court compilation process. The addition of these units in the field will effectively reduce the citation writing process which will lead to at least a 5% reduction in the citation documentation process.

Guidance & Occupancy System

This system utilizes hardware data with software analysis to power smart parking applications with a continuous, comprehensive and accurate flow of occupancy data for effective parking policy decisions and parking guidance.

Development and implementation of an application (app) that will combine data from parking meter back office systems and pay by phone back office systems to create algorithms that will create current occupancy percentage and use pattern detail by block face and a guidance system which will provide directions to parking availability.

Parkers can see in real-time how many on-street parking spaces are available and what the current parking fees are. Additionally this app will provide a framework for private owners and operators to place their garages and surface lots in the app and

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provide a more comprehensive overview of available parking, cost and use detail.

Pay by Phone App for Public Events Garages

This project will provide a pay by phone app for use in events garages as another mode of payment for our customers. This will simplify and reduce the length of the transaction process providing faster exit from the facilities especially in times of the highest demand. The addition of this new technology will also improve revenue and audit control.

Automation of the Taylor Street Garage

An addition of a gated control system solution to the Taylor Street garage is necessary to reduce time spent on administrative, enforcement and customer service as well as add security for the structure and parkers. This is an open garage with no control solution and requires a significant amount of oversight, enforcement and customer service. The projected cost is \$60,000.00. This investment will lead to an estimated cost avoidance of \$6,000.00 per year and an ROI of less than 10 years.

Security System Improvement of the Houston Street Garage

This project involves the addition of 10 security cameras to the existing system in the garage to help protect our parking customers, and deter theft and vandalism.

annual savings associated with the debt refinancing is expected to be at least \$800,000 per year compared to the original schedule. The savings from this action could be reserved for future capital needs especially with regards to the development and operation of the Joint WRMC/Arena entertainment complex, future capital maintenance of the existing parking facilities or to maintain parking rates at the WRMC complex after the implementation of the venue parking tax.

LOOKING TO THE FUTURE

Parking debt obligations were refinanced in FY2016 and will provide significant relief in debt payments starting in FY2020. The City realized over \$8.3 million in net present value savings from the refunding of the Parking obligations. Estimated

OVERVIEW

The Culture and Tourism Fund promotes increased economic activity through visitor spending generated by events held at the Fort Worth Convention Center (FWCC) and the Will Rogers Memorial Center (WRMC). The Convention and Visitors Bureau (CVB) contracts with the City to market the destination.

All activities are supported through the collection of the hotel/motel occupancy taxes, DFW revenue share and the revenues generated by events scheduled at the Fort Worth Convention Center and the Will Rogers Memorial Center. In Fiscal Year 2016, revenues from the DFW Revenue Sharing and 2% hotel occupancy tax of the total 9% collected, were segregated into separate funds in order to more accurately track the uses of the different revenue sources and restrictions. All revenue funds are administered by the Public Events Department.

The Public Events administration is responsible for operating and maintaining the FWCC, the WRMC, the Office of Outdoor Events and the Fort Worth Sports Authority. The FWCC and WRMC host national, regional and state conventions, conferences, world-class equestrian events, concerts, sporting events, theatrical performances, community events and the Southwestern Exposition and Livestock Show and many others.

The Convention and Visitors Bureau's contract with the City serves to enhance tourism and promote visitor activities in Fort Worth. The CVB also manages the full-time operations of the Fort Worth Herd.

FACILITIES

Fort Worth Convention Center - Purchased from Tarrant County in 1997, the City embarked on a major revitalization and renovation of the Fort Worth Convention Center. The venue encompasses over 180,000 square feet of contiguous exhibit space with 45,000 square feet of storage and docks, an Arena that will accommodate up to 13,000 people, a 28,160 square foot, Texas Contemporary Ballroom, 38 adaptable meeting rooms (60,000 square feet) and a 55,000 square foot events plaza.

Will Rogers Memorial Center - Established in 1936 to house events near downtown and in the Cultural District, the Will Rogers Memorial Center now attracts in excess of two million visitors each year. This 105-acre facility plays host to an extensive variety of social, cultural, educational, recreational and sporting events. However, major equestrian shows continue to be the primary commitment of the Center.

The Equestrian Center features three climate controlled show arenas, a sale arena, a current capacity of approximately 2,500 horse stalls, multiple exercise arenas, 65 cattle pens and recreational vehicle accommodations. The heart of the facility is the historic Will Rogers Coliseum which is home for many equestrian and sporting events including the legendary Fort Worth Stock Show & Rodeo which celebrated its 120th year in 2016.

Cowtown Coliseum in the Stockyards National Historic District commemorated its 100th anniversary in 2008. Construction of the building began in 1907 and was completed in 1908 at a cost of \$250,000. The City of Fort Worth currently owns the familiar stucco building. Rodeo Plaza, Inc. (RPI) leases the facility and provides family

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oriented entertainment that represents the rich western cowboy culture and compliments the historical origins of the area. The city provides an annual subsidy of \$185,000 and RPI provides all other operating expenses and maintenance with the exception of expenses related to the central energy plant that is capped at \$12,000 per year and major capital projects. The term expires in 2017 with two five-year renewal options. In addition to the Cowtown Coliseum, the lease premises include the Ride-Out Arena, Rodeo Plaza and old Mounted Patrol Facility.

CAPITAL IMPROVEMENT STRATEGY

In 2009, City Council amended the City's Financial Management Policy Statements to dedicate the revenue from the DFW Revenue Share for facility improvements at the Fort Worth Convention Center and Will Rogers Memorial Center. The Culture and Tourism Fund balance, accumulating from hotel occupancy taxes and facility revenues, has also provided funds for facility improvements.

The development and implementation of the five-year Capital Improvement Plan will ensure that the facilities are upgraded and maintained in order to meet the needs of the facility users and achieve the Department's Mission to provide an exceptional customer experience. The criteria for the plan were based on strategic communication with clients, completion of client surveys, visits to competing facilities, identification of aging systems and infrastructure, plus public/private partnerships with Events Facilities Fort Worth and the Fort Worth Stock Show.

Convention Center: An architectural study and analysis of the Convention Center commenced in

October 2015 and was completed on May 11, 2016. The study reviewed the existing site conditions, including life safety, structural, electrical and HVAC systems as well as overall general condition of existing facility fixtures, finishes, materials and site accessibility. The study also examined all visible conditions and maintenance records. The final report includes recommendations, photos and illustrations of areas of concern, and estimates of probable remediation costs. The assessment identified 100 projects with probable costs of over \$22 million. Staff is currently analyzing the areas of insufficiency and will incorporate the projects in to the 5-year CIP as funds become available based on priority.

Will Rogers Memorial Center: The architectural study and analysis of the Will Rogers Memorial Center commenced on February 1 2016. Due to the size of the complex, the study is being completed in phases. At the end of each phase, a report will be provided to staff. It is anticipated to be completed by the end of the 2017 calendar year. As with the Convention Center assessment, the projects will be incorporated into the 5-year CIP as funds become available based on priority.

Cowtown Coliseum: The assessment of the Cowtown Coliseum was completed in July 2013. The project scope included a review of the overall condition of the facility as well as recommendations for repairs and an opinion of probable construction costs. The study encompassed structural, electrical, lighting and lighting controls, mechanical/plumbing and fire protection systems. The area of insufficiency with the highest priority was the replacement of air handlers and renovation of the central plant. The project began in FY2016 with the design phase and is anticipated to be completed in FY2018. Another high priority project in the

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assessment included the replacement of fire alarm system and life safety requirements such as emergency lighting, exiting, electrical systems and fire suppression are scheduled for FY2019.

Dickies Arena at WRMC: Two independent strategic feasibility studies indicated the need for a multipurpose arena to complement the Will Rogers Memorial Center. In 2014, the citizens of Fort Worth overwhelmingly approved three venue taxes to support financing of the \$450,000,000 arena and adjacent event support and parking facilities with a public contribution limited to \$225,000,000 and private sector participation for the remainder. The 9,300 fixed-seat state-of-the-art arena, with capacity for an additional 3,700 temporary seats, will bring concerts and larger entertainment events to the City and host community and school events as well as the Stock Show and Rodeo and will include support facilities and a public plaza. Design is nearing completion. The construction of the parking garage commenced in early 2016 and is expected to be completed by the end of the 2017 calendar year. The construction on the arena is scheduled to commence in early 2017 and is on track for a November 2019 opening.

Fort Worth Convention Center Phase III expansion and new 1,000 convention hotel development: Multiple feasibility and economic impact studies indicated the need for a Phase 3 expansion of the convention center with additional exhibit and meeting space that would be flexible in order to accommodate larger exhibits or general sessions in order to attract more conventions. An additional 1,000 room convention hotel would also be needed to provide adequate hotel capacity to service existing and expanded conventions. The additional convention hotel along with an expanded convention center would provide two attractive

entrances and provide the ability to host multiple, simultaneous conventions. The strategy was to build the arena adjacent to the Will Rogers Memorial Center before removing the existing FWCC arena so that a venue would be available to host graduations, concerts and other events important to the community. A request for qualifications and proposals was issued in FY2016 for the development of a 1,000 room convention hotel, however, the project was suspended pending the determination of incentives that will be available for the development. The preferred design would realign Commerce Street to provide the hotel pad sites necessitating a Phase 3A convention center expansion with the removal of the exhibit annex, expansion of kitchen facilities and renovated dock area to be included with the hotel construction with construction at a later date. The Phase 3B expansion of the convention center to replace the arena with additional exhibit, ballroom and meeting space is anticipated to commence in approximately 2022-2025 subject to debt service capacity.

CAPITAL REVENUE SOURCES**Fund Balance**

In previous years, the Culture & Tourism Fund balance has served as the primary source of cash funding of capital projects in order to upgrade aging facilities and improve service delivery. Over \$5.5 million was transferred to the Culture & Tourism Capital Project Fund to support the new Dickies Arena. Approximately \$4.8 million funded a portion of the FY2016 capital projects. However in FY2017, no use of fund balance was necessary.

The current Financial Management Policy Statements require a fund balance of 16.67% which will be monitored to ensure the operations can

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weather any downturns. Excesses in future years could be used to continue capital investments.

DFW Revenue Share

In 1998, the City of Fort Worth entered into an agreement with the Cities of Euless and Dallas to provide for the sharing of DFW Rental Car taxes, plus incremental tax revenues generated by future economic development projects within the geographical boundaries of the Airport. Fort Worth also receives incremental taxes from other municipalities adjacent to the DFW Airport that are included in the DFW Revenue Share. In 2009, the City Council amended the City's Financial Management Policy Statements providing that the revenues from Dallas/Fort Worth Revenue Sharing be dedicated to facility improvements at the Fort Worth Convention Center and Will Rogers Memorial Center.

Currently the FY2018 budget is \$5.9 million; however in future years, the revenue model assumes \$5.7 million in revenue annually with no growth. With the opening of the DART train line to the airport, the anticipated TRE route in 2018, and the growth of the sharing market with services like Uber, it is expected that this could be a stagnant source of revenue going forward.

Hotel Occupancy Tax

On November 18, 1997, the City Council increased the Hotel Occupancy Tax Rate to 9% with 2% of the tax collected to be used only for the expansion of an existing convention center facility or pledging payment of revenue or revenue refunding bonds issued in accordance with state law for the construction of the expansion. In 2013, state law was amended to expand the list of allowed uses to include a "qualified project," which is a defined concept that encompasses the Venue Project that

includes the New Dickies Arena adjacent to the Will Rogers Memorial Center (WRMC). On September 29, 2015, the Code of the City of Fort Worth was amended to add qualified projects as allowable expenditures for hotel occupancy taxes in excess of seven percent.

The revenue model projects growth of HOT within the Project Financing Zone (PFZ) to be 3.8% in demand. The non-PFZ hotels are anticipated to have 4.6% demand growth. This is a conservative estimate based on City-wide combined growth of 7% over the last decade, including significant downturns. The model does not include the addition of a Convention Center Hotel since it is anticipated that correlating revenue will be partially consumed by an incentive deal to straighten Commerce Street and establish quality standard of the facility.

Project Financing Zone No. 1

On October 23, 2013, (M&C G-18048) City Council adopted Ordinance No. 21011-10-2013 designated the Project Financing Zone Number One (PFZ#1) and identified two qualified projects under Section 351.1015(a) (5) of the Texas Tax Code. The two projects are the expansion of the Fort Worth Convention Center and the multipurpose arena including a livestock facility adjacent to the Will Rogers Memorial Center. The PFZ#1 encompasses the area within a three-mile radius of each of the qualified projects from which incremental State Hotel Occupancy Taxes, Mixed Beverage Taxes and State Sales Taxes generated at hotels within the PFZ will be allocated to the City to assist in the financing of costs associated with each project. In January 2014, the State Comptroller of Public Accounts began to deposit increment above the 2013 base year into an account that will assist in financing the qualified projects. To date approximately \$4.6 million has been placed

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in trust by the Office of the Comptroller of which approximately \$4.3 million has been distributed to the City. In FY2018, approximately \$2.6 million is budgeted to be expended.

Venue Taxes

On November 4, 2014, the citizens of Fort Worth overwhelmingly approved three venue taxes to support financing of the \$450,000,000 arena and adjacent event and parking support facilities with the public contribution limited to \$225,000,000 and private sector participation for the remainder. Those taxes may be levied when the arena opens and include a ticket tax, parking tax and stall tax. Collections are not anticipated until 2020. The City will use the taxes, when implemented, to support future debt issuances related to the construction of the arena.

OPERATIONS AND MAINTENANCE IMPACT

The majority of the improvements in the Public Events CIP is directed toward improving existing facilities and infrastructure and has resulted in increased efficiencies and should not increase the operational costs of the facilities. No maintenance or improvement costs or AP have been anticipated for FY2018 CIP improvements. The new Dickies Arena and parking garage will be privately managed and no additional AP's or maintenance costs are anticipated, however, costs related to insurance will need to be determined.



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Public Events

**CONVENTION CENTER MAJOR
RENOVATIONS**

Renovation, rehabilitation, repairs and maintenance on existing systems, equipment and facilities with a

cost of \$250,000 or more per project at the Fort Worth Convention Center

Total estimated spending over the next five years is \$7,600,000.

5-year CIP Summary: Convention Center Major Renovations

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
AirHandlers Halls B-F	\$ 1,000,000					\$ 1,000,000
Roof replacement			\$ 5,100,000			\$ 5,100,000
Portable Meeting room chairs (11,000)				\$ 1,100,000		\$ 1,100,000
Main concourse carpet replacement				\$ 400,000		\$ 400,000
						\$ -
Total	\$ 1,000,000	\$ -	\$ 5,100,000	\$ 1,500,000	\$ -	\$ 7,600,000
Funding Sources						
Cash Funded Capital	\$ 1,000,000		\$ 5,100,000	\$ 1,500,000		\$ 7,600,000
Debt-Funded Capital						
Total Sources	\$ 1,000,000	\$ -	\$ 5,100,000	\$ 1,500,000	\$ -	\$ 7,600,000

FY2018 Project Descriptions:

- Replacement of Air Handlers that serve Exhibit Halls B – F – project would either renovate or replace the 50 year old air handlers that are on the east wall of the exhibit hall. Presently the air handlers have little to no control devices and are extremely inefficient due to their age.

the replacement in FY2020. This project does not include a new roof for the FWCC Arena or the Arena Meeting Rooms.

FY2021 Project Descriptions

- Replacement of 11,000 banquet/stacking chairs – This would replace all of the stacking chairs within the FWCC which will be 20 years old by the time of this project.

FY2019 Project Descriptions:

- None scheduled

FY2020 Project Descriptions:

- Replacement of majority of the roof at the FWCC. Portions of the roof are over 30 years old while other sections will be approaching 20 -25 years old by the time of

- Carpet replacement on the Main Concourse project would replace the custom carpet in the main concourse on the lower level. The present carpet will be over 10 years by the time it is replaced.

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Past Accomplishments: Convention Center Major Renovations

Year	COST	DESCRIPTION
FY2013	\$ 1,995,453	Arena Meeting Room Renovation, Boiler Upgrade, HVAC Mechanical Controls
FY2014	\$ 943,119	Carpet
FY2015	\$ -	No Major Projects Completed
FY2016	\$ 1,050,000	Arena Seat Renovation and Motorized Partitions

CONVENTION CENTER MINOR RENOVATIONS

Renovation, rehabilitation, repairs and maintenance on existing systems, equipment and facilities with a

cost of less than \$250,000 per project at the Fort Worth Convention Center. Total estimated spending over the next five years is \$1,325,000. Examples include ballroom lighting, roof repairs, equipment, technology upgrades, etc.

5-year CIP Summary: Convention Center Minor Renovations

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Multiple Projects						
Ballroom lighting	\$ 250,000					\$ 250,000
Digital signage/video boards	\$ 100,000					\$ 100,000
Electrical Distribution Box replacement	\$ 90,000					\$ 90,000
Roof repairs	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000		\$ 200,000
Technology upgrades (SCN)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Reserve	\$ 105,000	\$ 55,000	\$ 200,000	\$ 200,000		\$ 560,000
Total	\$ 620,000	\$ 130,000	\$ 275,000	\$ 275,000	\$ 25,000	\$ 1,325,000
Funding Sources						
Cash Funded Capital	\$ 620,000	\$ 130,000	\$ 275,000	\$ 275,000	\$ 25,000	\$ 1,325,000
Debt-Funded Capital						
Total Sources	\$ 620,000	\$ 130,000	\$ 275,000	\$ 275,000	\$ 25,000	\$ 1,325,000

City of Fort Worth
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Public Events

Past Accomplishments: Convention Center Minor Renovations

Year	COST	DESCRIPTION
FY2013	\$ 802,498	Carpet, HVAC Minor, Sound Upgrade, Arena AHU, Wireless Upgrade, Radio Upgrade (cont.)
FY2014	\$ 139,407	Boiler Improvements, Strategic Plan Consultant
FY2015	\$ 64,729	CAD Drawings, electrical repairs and minor system upgrades
FY2016	\$ 198,971	Roof repair design, technology upgrade, kitchen equipment
FY2017	\$ 662,109	Arena handrails, security cameras, service elevator door repair, security door mullion bars, and outside lights

WILL ROGERS MEMORIAL CENTER MAJOR RENOVATIONS

Renovation, rehabilitation, repairs and maintenance on existing systems, equipment and

facilities with a cost of \$250,000 or more per item at the Will Rogers Memorial Center. Total estimated spending over the next five years is \$8,450,000.

5-year CIP Summary: Will Rogers Major Renovations

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Richardson Bass roof replacement (north)	\$ 1,000,000					\$1,000,000
Richardson Bass roof replacement (Barrell)		\$ 1,600,000				\$1,600,000
Richardson Bass roof replacement (south)				\$ 1,300,000		\$1,300,000
Marquee upgrade				\$ 500,000		\$ 500,000
Video board upgrade (Justin & Watt)					\$ 500,000	\$ 500,000
Video board upgrade (N/S Coliseum)	\$ 430,000					\$ 430,000
Soundsystem upgrade (Richardson Bass)		\$ 870,000				\$ 870,000
Soundsystem upgrade (Moncrief)				\$ 500,000		\$ 500,000
Soundsystem upgrade (Burnett)					\$ 900,000	\$ 900,000
Moncrief Lighting upgrade (stall & arena)	\$ 500,000					\$ 500,000
Amon Carter Lighting upgrade				\$ 350,000		\$ 350,000
Total	\$ 1,930,000	\$ 2,470,000	\$ -	\$ 2,650,000	\$ 1,400,000	\$8,450,000
Funding Sources						
Cash Funded Capital	\$ 1,930,000	\$ 2,470,000	\$ -	\$ 2,650,000	\$ 1,400,000	\$8,450,000
Debt-Funded Capital						
Total Sources	\$ 1,930,000	\$ 2,470,000	\$ -	\$ 2,650,000	\$ 1,400,000	\$8,450,000

FY2016 Project In-Progress or Pending:

- Coliseum East Parking Lot – repair and reseal parking lot that is located east of the Coliseum (estimated completion date of December 2017).
- WRMC Chiller Replacement – replace chiller #1 (pending further study and rebate opportunities). This project is currently in the planning and design phase with project specifications expected by the end of the fiscal year and completion expected in FY2018.

- WRMC Barn Lighting – Study of lighting systems in the horse stall and cattle pen areas of the Burnett Building and Richardson-Bass Building and potential replacement with new LED Technology to reduce utility costs and improve lighting in these areas. Present lighting systems are outdated and spare parts are becoming very difficult to purchase. This project also includes the Justin Arena lighting and was approved by Council on 10/18/16. This project is approximately 75% complete with an estimated completion date of December 2017.
- WRMC Coliseum Lighting – study of and possible replacement of the existing coliseum lighting system to reduce utility costs and improve quality of lighting. Parts are no longer available for the present Wide-
- light system. The contract was awarded by Council on 10/18/16. This project is approximately 75% complete with an estimated completion date of December 2017.
- WRMC Assessment – a thorough review by architects, engineers and other professionals of the status of the major systems and the facility with recommendations for improvements and an estimate of probable costs (in progress). This project is estimated to be completed by December 2017.

FY2017 Projects in Progress or Pending:

- WRMC Campus Technology –The campus technology project will install and upgrade the technology infrastructure on the Will Rogers Memorial Campus to improve access to technology, both wired and wireless, for the facility users to meet the event requirements.
- WRMC Burnett Stall Replacement –This project will provide new, portable stalls that will replace the current obsolete stalls and increase the flexibility of the building from stalling purposes only to a multi-purpose space. Currently this project is in the design phase; a timeline for completion will be developed in FY2018.
- WRMC Richardson Bass Burnett Asphalt Replacement – The asphalt base of the flooring in the buildings and is in need of full replacement to provide a clean, safe and attractive base for the equestrian center. Currently this project is in the design phase; a timeline for completion will be developed in FY2018.
- WRMC Justin Meeting Room Addition – Additional meeting rooms are necessary to provide amenities for the equestrian shows, including show offices, meeting facilities and other ancillary space necessary for today's sophisticated equestrian/livestock. Currently this project is in the design phase; a timeline for completion will be developed in FY2018.

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FY2018 Projects:

- Richardson-Bass North Roof Replacement – Project would replace the north section of the Richardson-Bass Building which has begun to leak. This section of the roof is over the horse stalls. This roof was last replaced after the 1995 hail storm.
- Video board upgrade Coliseum – Project would install two (2) large video boards to the Coliseum, one at the north end and one at the south end for use by clients.
- Moncrief Lighting Upgrade – Project would replace the existing light fixtures in the Moncrief Building with new LED energy saving lights. The lights would be replaced throughout the building.

FY2019 Projects:

- Richardson-Bass Barrel Roof Replacement - Project would replace the barrel roof portion of the Richardson-Bass building. The barrel roof covers the Justin and West Arenas as well as the lobby spaces. This roof was last replaced in 1995 after the hail storm.
- Sound System Upgrade – Project would upgrade the sound system in the Justin Arena as well the overall sound and audio
- Visual connectivity for the majority of the campus.

FY2020 Projects:

- No Major Projects Budgeted

FY2021 Projects:

- Richardson-Bass South Roof Replacement – Project would replace the south roof of the Richardson-Bass Building. This portion is leaking but is over the cattle pens. This section of the roof was last replaced in 1995 after the hail storm. This will complete the roof replacement on the Richardson-Bass Building.
- Lancaster tri-sided marquee upgrade – Project would replace and or upgrade the existing tri-sided marquee at the intersection of Lancaster & University.
- Sound System upgrade – Replace sound systems in the Moncrief Building.
- Amon Carter Exhibits Building Lighting Upgrade – Replace existing building lighting with energy saving LED lights.

FY2022 Projects:

- Sound System upgrade – This project will replace the sound systems in the Burnett Building.
- Video Board Upgrade Justin and Watt Arenas

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Past Accomplishments: Will Rogers Major Renovations

Year	COST	DESCRIPTION
FY2013	\$ 5,104,619	Auditorium Lighting/Sound Upgrade, Brown Lupton N Exhibit Renovation, Livestock Bldg. Exhaust Renovation, Portable Stalls
FY2014	\$ 1,857,972	Livestock Bldg. Exhaust Renovation, AHU/Water Pump, Pavilion
FY2015	\$ 6,546,034	WRMC Multi-Purpose Pavilion
FY2016	\$ 13,767,394	Cattle Barn 2 /Tower Drive/Promenade Renovation, WRMC Moncrief Chiller and Brown-Lupton South Roof Top Units
FY2017	\$ 420,331	Justin Arena and Watt Arena Video Board Systems Installation

WILL ROGERS MINOR RENOVATIONS

Renovation, rehabilitation, repairs and maintenance on existing systems, equipment and facilities with a cost less than \$250,000 per item at the Will Rogers

Memorial Center. Total estimated spending over the next five years is \$1,910,000. Examples include roof repairs, sprinkler systems, and concrete work.

5-year CIP Summary: Will Rogers Minor Renovations

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Multiple Projects						
Roof Repairs	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000		\$ 200,000
Sprinkler Systems	\$ 200,000	\$ 200,000	\$ 200,000			\$ 600,000
Amon Carter Doors concrete repair	\$ 200,000					\$ 200,000
Reserve	\$ 155,000	\$ 155,000	\$ 300,000	\$ 300,000		\$ 910,000
Total	\$ 605,000	\$ 405,000	\$ 550,000	\$ 350,000	\$ -	\$ 1,910,000
Funding Sources						
Cash Funded Capital	\$ 605,000	\$ 405,000	\$ 550,000	\$ 350,000	\$ -	\$ 1,910,000
Debt-Funded Capital						
Total Sources	\$ 605,000	\$ 405,000	\$ 550,000	\$ 350,000	\$ -	\$ 1,910,000

Past Accomplishments: Will Rogers Minor Renovations

Year	COST	DESCRIPTION
FY2013	\$ 273,542	Roof Repairs, Upgrade Boiler, Brown Lupton North Exhibit Design, Radio Upgrade (cont.)
FY2014	\$ -	No Minor Projects Completed
FY2015	\$ 295,935	Burnet Tandy Paver Upgrade, Amon Carter Rehab, Electrical Systems Upgrades, Marquee Sign Replacement
FY2016	\$ 69,700	Justin Arena Wall Renovation
FY2017	\$ 40,713	Landscaping Pavers, Ice Machine, CB2 HVAC Sound Room

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**COWTOWN COLISEUM RENOVATIONS
AND REPAIRS**

estimated spending over the next five years is \$350,000. Examples include life safety and fire suppression systems upgrades.

Renovation, rehabilitation, repairs and maintenance on existing systems, equipment and facilities. Total

5-year CIP Summary: Cowtown Coliseum Renovations and Repairs

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Life safety upgrades/fire suppression		\$ 350,000				\$ 350,000
Total	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Funding Sources						
Cash Funded Capital	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Debt-Funded Capital						
Total Sources	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000

FY2016 Project In-Progress:

Replace HVAC system in Central Plant and air handlers (design is complete and project is being bid with completion anticipated in FY2018).

FY2017 Projects:

Replacement of obsolete fire alarm system.

FY2018 Projects:

No capital projects budgeted.

FY2019 Projects:

Upgrade of life safety and fire suppression systems.

Past Accomplishments: Other Renovations

Year	COST	DESCRIPTION
FY2013	\$ 189,509.00	Cowtown Coliseum Assessment & Sound System Upgrades
FY2014	\$ -	No projects completed
FY2015	\$ -	No projects completed
FY2016	\$ 7,000.00	Cowtown Coliseum Arena Wall Evaluation
FY2017	\$ -	No projects completed

NEW FACILITIES



Upon adoption of the FY2016 Public Events Capital Improvement Plan, a total of \$13,499,250 was available in the Culture & Tourism Capital Project Fund for cash-funded expenditures related to the multipurpose arena. The source of the funding was operating and fund balance. Future funding sources will be reimbursement from the State related to the Project Financing Zone (PFZ) #1 from which incremental State Hotel Occupancy Taxes, Mixed Beverage Taxes and State Sales Taxes generated at hotels within the PFZ will be allocated to the City to assist in the financing of costs associated with

each project and the Venue Taxes that will be collected once the arena opens.

Construction of the multipurpose arena is scheduled to begin immediately following the 2017 Stock Show with completion anticipated in late 2019.

Construction of the garage is underway with anticipated completion in late 2017.

5-year CIP Summary: Dickies Multipurpose Arena

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Dickies Multipurpose Arena	\$ 3,000,000	\$ 3,200,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,200,000
Total	\$ 3,000,000	\$ 3,200,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,200,000
Funding Sources						
Cash Funded Capital	\$ 3,000,000	\$ 3,200,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,200,000
Debt funded capital	\$ 226,840,000					\$ 226,840,000
Total Sources	\$ 229,840,000	\$ 3,200,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 239,040,000

* PFZ Funds and Venue Taxes are not included in above chart.

** Excludes \$14,248,801 in public funding for capital projects occurring prior to execution of the Master Agreement for storm drain improvements, Trail Drive, etc

LOOKING TO THE FUTURE

Convention Center Expansion

A feasibility analysis confirmed earlier studies of a need for a Phase 3 expansion of the Convention Center and recommended that the City replace and/or upgrade the original portion of the building, including the arena.

The expansion and renovation of the FWCC should include the following components in order to optimize the FWCC's position in the market and respond to the market that wants to come to Fort Worth:

- **Exhibit Space:** Expand prime exhibit space from 182,000 square feet currently to as close to 300,000 square feet as possible (includes removal of arena).
- **Ballrooms:** The addition of a 50,000 square foot ballroom will do the most within the building to make Fort Worth more competitive and able to meet the market's needs and accommodate one major convention effectively or two simultaneous conventions.
- **Meeting Rooms:** The replacement and addition of meeting rooms for a new total of 80 meeting rooms and 80,000 square feet will help the FWCC attract higher rated business (professional associations, corporate events, technical meetings) that require numerous breakout meeting rooms for training, teaching and related small group settings to compete more with Dallas, Houston, Austin and San Antonio, not to mention about 25 other large U.S. cities and the Gaylord properties.
- **Food and Beverage:** A full catering kitchen that allows for consistent, high-quality service and simultaneous plating for hundreds of people should be added to the FWCC.
- **Parking:** While parking downtown is not generally a problem, for large events, parking can easily overflow from the primary garage and lots. There is no existing or easy onsite parking option. Therefore, as part of the replacement of the north end of the building, an underground parking garage is recommended.
- **Hotels.** Due to the small hotel package that Fort Worth offers in a walkable and proximate radius from the FWCC, even with its current convention space sizing, it should add a second branded headquarters hotel of 1,000 rooms near the north or northeast end of the building.
- **Straightening Commerce Street.** It has been established that the Annex is subprime space and its development caused Commerce Street to bow out around it. The space is not especially helpful to the FWCC and prime exhibit space can be added in a multi-story addition/replacement of the north end of the building. The benefit of removing the Annex and straightening Commerce is the creation of larger development parcels east of Commerce, which would make the development of one or more convention hotels easier and completes a long-held planning goal of the downtown plan.

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- **Creating a new Front Door.** The FWCC currently has no welcoming front door on the north or east side of the facility. A replaced north end should include a welcoming public access point and grand lobby and second level terraced restaurant or reception area that simultaneously functions as a counterpoint to the courthouse at the other end of Main Street. The views to and from this new front door should ultimately provide Fort Worth with some additional iconic imagery and create that connectivity

to the rest of the entertainment district and Sundance Square area that is needed.

Other Future Issues

Currently, the Culture and Tourism Fund is receiving a subsidy from the General Fund equal to the amount of both the Omni local HOT rebate and the debt amount associated with the Johnson Controls Energy Management Program. In future years, as the Fund experiences surpluses, these subsidy amounts will be reduced. Absorbing these expenses into the Fund, will most likely have an impact on future capital projects.

Past Accomplishments: Fort Worth Dickies Arena

Year	COST	DESCRIPTION
FY2015 & before	\$ 14,248,801.00	Prior publicly funded capital projects for Storm Drain improvements, Trail Drive, etc.
FY2016	\$ 10,026,519.09	Bodycote Acquisition

VEHICLE CAPITAL OUTLAY

Funds in this category reflect equipment and one-time studies that are not directly tied to a capital project.

5-year CIP: Vehicle and Equipment Replacement

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Vehicle and Equipment Replacement	\$146,000	\$94,603	\$123,686	\$123,686	\$0	\$487,975
Total	\$146,000	\$94,603	\$123,686	\$123,686	\$0	\$487,975
Funding Sources						
Cash Funded Capital	\$146,000	\$94,603	\$123,686	\$123,686	\$0	\$487,975
Debt-Funded Capital						
Total Sources	\$146,000	\$94,603	\$123,686	\$123,686	\$0	\$487,975

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5-year CIP Recap FY2018 – FY2022

Funding Source	Category	Project	FY2018	FY2019	FY2020	FY2021	FY2022	5-year Total 2018-2022
DFW Rev Share	FWCC Major Renovation & Repair	FWCC Roof Replacement	\$ -	\$ -	\$ 5,100,000	\$ -	\$ -	\$ 5,100,000
DFW Rev Share	FWCC Major Renovation & Repair	Air Handlers Halls B-F (assessment item)	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
DFW Rev Share	FWCC Major Renovation & Repair	FWCC Portable meeting room chairs (11,000)	\$ -	\$ -	\$ -	\$ 1,100,000	\$ -	\$ 1,100,000
DFW Rev Share	FWCC Major Renovation & Repair	FWCC Main Concourse Carpet replacement	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ 400,000
		TOTAL FWCC MAJOR RENOVATION & REPAIR	\$ 1,000,000	\$ -	\$ 5,100,000	\$ 1,500,000	\$ -	\$ 7,600,000
DFW Rev Share	FWCC Minor Renovation & Repair	Ballroom Lighting Upgrade	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000
DFW Rev Share	FWCC Minor Renovation & Repair	Digital Signage/video boards	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
DFW Rev Share	FWCC Major Renovation & Repair	Electrical Distribution box replacement	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ 90,000
DFW Rev Share	FWCC Minor Renovation & Repair	FWCC Roof Repairs	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 200,000
DFW Rev Share	FWCC Minor Renovation & Repair	RESERVE	\$ 105,000	\$ 55,000	\$ 200,000	\$ 200,000	\$ -	\$ 560,000
Operating Trf	FWCC Minor Renovation & Repair	FWCC Technology fund upgrades (SCN)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
		TOTAL FWCC MINOR RENOVATION & REPAIR	\$ 620,000	\$ 130,000	\$ 275,000	\$ 275,000	\$ 25,000	\$ 1,325,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Richardson Bass roof replacement (north)	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Richardson Bass roof replacement (Barrell)	\$ -	\$ 1,600,000	\$ -	\$ -	\$ -	\$ 1,600,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Richardson Bass roof replacement (South)	\$ -	\$ -	\$ -	\$ 1,300,000	\$ -	\$ 1,300,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Marquee upgrade	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Video Board upgrade (Justin & Watt)	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Video Board upgrade (N/S Coliseum)	\$ 430,000	\$ -	\$ -	\$ -	\$ 500,000	\$ 930,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Soundsystem upgrade (Richardson-Bass)	\$ -	\$ 870,000	\$ -	\$ -	\$ -	\$ 870,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Soundsystem upgrade (Moncrief)	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Soundsystem upgrade (Burnett)	\$ -	\$ -	\$ -	\$ -	\$ 900,000	\$ 900,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Moncrief Lighting upgrade (stall & arena)	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
DFW Rev Share	WRMC Major Renovation & Repair	WRMC Amon Carter Lighting upgrade	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ 350,000
		TOTAL WRMC MAJOR RENOVATION & REPAIR	\$ 1,930,000	\$ 2,470,000	\$ -	\$ 2,650,000	\$ 1,400,000	\$ 8,450,000
DFW Rev Share	WRMC Minor Renovation & Repair	WRMC Sprinkler Systems	\$ 200,000	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ 600,000
DFW Rev Share	WRMC Minor Renovation & Repair	WRMC Roof Repairs	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 200,000
DFW Rev Share	WRMC Minor Renovation & Repair	WRMC Amon Carter Doors concrete repairs	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
DFW Rev Share	WRMC Minor Renovation & Repair	RESERVE	\$ 155,000	\$ 155,000	\$ 300,000	\$ 300,000	\$ -	\$ 910,000
		TOTAL WRMC MINOR RENOVATION & REPAIR	\$ 605,000	\$ 405,000	\$ 550,000	\$ 350,000	\$ -	\$ 1,910,000
DFW Rev Share	Cowtown Coliseum Major Ren & Rep	Life safety requirement upgrades/fire suppression	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
		TOTAL COWTOWN COLISEUM MAJOR RENOVATION & REPAIR	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Operating Trf	New Public Events Facilities	Multi-Purpose Arena	\$ 3,000,000	\$ 3,200,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,200,000
		TOTAL NEW PUBLIC EVENTS FACILITIES	\$ 3,000,000	\$ 3,200,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,200,000
Operating Transfe	Vehicles-Capital Outlay	Vehicle & Equipment Replacement - Culture & Tour	\$ 146,000	\$ 94,603	\$ 123,686	\$ 123,686		\$ 487,975
			\$ 146,000	\$ 94,603	\$ 123,686	\$ 123,686	\$ -	\$ 487,975
		TOTAL	\$ 7,301,000	\$ 6,649,603	\$ 8,048,686	\$ 6,898,686	\$ 3,425,000	\$ 32,322,975

OVERVIEW

Prior to 2003, the City collected residential garbage. Through a competitive purchasing process, the City selected a private contractor to replace City services. Commercial collection is open market and customers can choose their own contractor. Single-family residents receive once-a-week garbage, yard trimmings and recycling services and once a month bulk collections as a part of their monthly bill. They pay for these services through their water bill. In Fiscal Year 2016, there were 215,946 residential customers, and 221,423 residential garbage carts in distribution (there are customers who pay to have additional carts). The use of a Pay-As-You-Throw system is where residents are billed by garbage cart size with recycle carts, yard trimmings and bulk provided free of charge, but subject to weekly setout limits.

The Code Compliance Department - Solid Waste Services manages the private contracts and provides other core services. Solid Waste Services consists of three primary sections: Contract Compliance, Litter and Illegal Dumping Operations and the Citizens Drop-off Stations.

The Contract Compliance Section is responsible for overseeing multiple City contracts for the residential solid waste collection and recycle processing services provided by Waste Management, as well as operations of the City's Southeast Landfill and transportation services for drop-off station containers provided by Republic Services. Solid Waste Services also manages the Grants of Privilege Program for authorized and permitted commercial solid waste haulers. This program collects 5% of the contractor's gross receipts and is transferred to the General Fund for street repairs and maintenance.

The Litter and Illegal Dumping Operations section is responsible for overseeing and responding to reported illegal dump complaints or sites, dead animal collections, litter abatement and related code enforcement activities.

The Citizens Drop-off Station section coordinates and manages the four existing Citizens Drop-off Stations. The Drop-off Stations are accessible for all Fort Worth residential solid waste customers to dispose of and recycle materials that are accepted in the residential collection program. They provide a convenient and accessible solution for higher volumes of waste that is produced during landscaping, move in/move out, spring cleaning, etc.

Most solid waste contracts run in 10 year increments. The collection program contract was renegotiated in 2013 and will be up for review again in 2023.

Residential Collections and Services

The City offers a Pay-As-You-Throw volume-based residential container sizing system to encourage recycling and discourage waste generation. Three residential container sizes are offered: 32 gallons, 64 gallons and 96 gallons. The City charges a variable rate for each container size: \$12.50 per month for 32 gallons, \$17.50 per month for 64 gallons, and \$22.75 per month for 96 gallons.

Revenue sources include: Residential Service Fees (which include Compliant and Non-compliant collections and Yard Trimming Cart sales), small business Commercial Service Fees, Landfill Lease/Operations revenues, Recycling Processing revenues, Community Education Funding (required by contract), minimal miscellaneous programs and

the Grant of Privilege fees (pass through to the General Fund for street maintenance or other areas).

Comprehensive Solid Waste Management Plan (CSWMP)

In 2014 the City began a long journey to update and revise Fort Worth's existing Solid Waste Plan (CSWMP). The previous plan was developed in 1995; nonetheless, the world has changed significantly since then. The new plan outlines future improvements, programs and new technology for providing a safe and cost effective/integrated solid waste program through 2037. The 2017-2037 Comprehensive Solid Waste Management Plan was unanimously adopted by City Council on September 12, 2017. Some of the plans findings/ recommendations are included as part of the 5-year CIP Plan.

Resource Reduction & Recycling Rate

The Texas state recycling goal is 40%; the national recycling rate average from U.S. EPA is 34.5%, and recent Columbia University research puts the national recycling rate average at around 29%. A January 2015 report called: The Texas Recycling Data Initiative, showed a tons-over-tons statewide municipal solid waste (MSW) recycling rate of 18.9%.

In recent years, not including yard waste, Fort Worth residents have source separated from the garbage 22% to 23% of their waste. The most recent waste sort of garbage and recycling was conducted in March 2014, and it was determined that the subject residences source separated a bit more than average, at 28%. However, nearly that much recycling by weight—i.e., what could have been recycled—remained in the trash and was lost to

landfill. This comparison shows that even without yard waste recycling, Fort Worth should ultimately be able to recycle more than the 30% goal rate.

Bulky Waste Program

Collection of bulk material is provided once monthly during a designated week. This service is for items that are too large, heavy, or otherwise unable to fit in a garbage cart. Bulk collection is not for excessive amounts of garbage, and bagged waste is not accepted. Other items not accepted in the bulk collection program include electronics, appliances containing coolant or gasoline, hazardous materials such as chemicals or poisons, automotive parts including batteries and tires), glass, rock, soil, concrete, or tile.

During the life of the current 1995-2015 Plan, unbudgeted costs for this program have been reduced due to program improvements, residents conforming to the set out instructions and establishing the drop-off Stations.

In a 2012 Customer Service survey, 70.4% of respondents indicated that they use the bulk program. In the same survey, 87.3% of respondents said they were "somewhat" or "very" satisfied with the bulk collection program.

Southeast Landfill (SELF) Program

Residential and commercial waste that cannot be recycled through either a material processing facility or mulching/composting operation is disposed of at SELF. SELF is owned by the City and operated by Republic Services, Inc. under a contract with an expiration date of December 31, 2033. The SELF permit was amended in 2010 to

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add capacity. The Landfill is located at 6288 Salt Road, Fort Worth.

A total of 784,008 tons of debris was landfilled in calendar year 2016, including residential and commercial waste. The City's residential waste stream accounted for 258,820 tons (33%) of the total 784,008 tons disposed at the landfill. The remaining amount is from private collectors providing service to the businesses and institutions in the City or collecting waste from other municipalities or industrial, commercial and institutional (ICI) customers outside the City.

There are no limitations on the amount of waste Republic is allowed to accept at the landfill, as long as they stay in compliance with all regulations and maintain efficient service to the City. At the current rates of disposal, the Landfill has 22-24 years remaining capacity.

Commercial waste that is generated by the private sector is hauled to one of several regional landfills

Regional Landfill Listing

Landfill	Owner	Operator	Location	Disposal Tons	Remaining Capacity (years)	Remaining capacity (tons)	Disposal Rate \$/ton	Compaction Rate
City of Fort Worth	City of Fort Worth	Republic	Fort Worth	501,336	46	23,261,387	21.84	1,747
121 Regional Disposal Facility	North Texas Municipal Water District	North Texas Municipal Water District	Melissa	782,790	112	88,114,323	\$ 31.00	1,426
City of Arlington	City of Arlington	Republic	Arlington	781,354	12	9,185,762	\$ 26.77	1,670
DFW Recycling and Disposal Facility	WMI of Texas	WMI of Texas	Lewisville	1,289,401	11	11,865,964	\$ 19.00	1,760
Camelot Landfill	City of Farmers Branch		Lewisville	298,875	20	6,023,197	\$ 28.90	1,785
Charles M Hinton Jr. Regional Landfill	City of Garland	City of Garland	Rowlett	342,020	49	20,880,811	\$ 26.37	1,200
City of Denton Landfill	City of Denton	City of Denton	Denton	176,509	32	5,673,041	\$ 43.50	1,009
Ellis County Landfill	Pine Hill Farms Landfill TX LP	Pine Hill Farms Landfill TX LP	Ennis	57,154	522	29,812,238	\$ 28.00	1,496
City of Grand Prairie Landfill	City of Grand Prairie	City of Grand Prairie	Grand Prairie	162,366	43	5,736,143	\$ 32.00	909
IESI Fort Worth C & D Landfill*	IESI	IESI	Fort Worth	359,439	10	3,457,732	\$ 29.95	1,560
IESI Weatherford Landfill	IESI	IESI	Weatherford	173,240	11	1,837,511	\$ 30.00	1,400
Hunter Ferrell Landfill	City of Irving	City of Irving	Irving	146,573	67	11,078,627	\$ 40.00	1,574
Itasca Landfill	Itasca Landfill Tx LP	Itasca Landfill Tx LP	Itasca	186,726	237	54,053,503	\$ 28.30	2,193
Lewisville Landfill	Lewisville Landfill Tx LP	Lewisville Landfill Tx LP	Lewisville	174,687	141	24,611,226	\$ 17.96	2,230
Republic Maloy Landfill	Republic Waste Services of Tx LTD	Republic Waste Services of Tx LTD	Campbell	97,828	39	3,774,141	\$ 29.42	1,234
City of Dallas McCommas Bluff Landfill	City of Dallas	City of Dallas	Dallas	1,461,947	45	66,338,351	\$ 21.50	1,400
CSC Disposal and Landfill	Republic Waste Services of Tx LTD	Republic Waste Services of Tx LTD	Avalon	6,680	655	18,052,237	\$ 30.25	1,163
Waste Management Skyline Landfill	WMI of Texas	WMI of Texas	Ferris	1,120,301	20	22,301,520	\$ 18.50	1,440
City of Stephenville Landfill	City of Stephenville	City of Stephenville	Stephenville	6,955	81	402,957	\$ 40.00	850
IESI Turkey Creek Landfill	IESI	IESI	Alvarado	425,462	17	7,171,192	\$ 32.00	1,460
Total				8,551,643		413,631,863		
Average				427,582	109	20,681,593	29	1,475

including SELF, the following table, summarizes the landfills that are located within the region.

Construction and demolition (C&D) waste generated in Fort Worth is disposed at either one of the several Type I landfills (MSW landfills), or the Type IV C&D landfills. There is one permitted Type IV Landfill in the area and it is owned and operated by Progressive Waste. This C&D landfill is located on Dick Price Road. It currently accepts approximately 359,000 tons per year and has eight years of remaining permitted capacity. Progressive Waste is actively seeking a permit modification to increase the site capacity and extend the site life, but will need to complete the public hearing process. Staff feels the City is well positioned to finalize the CSMWP by engaging City Management, Elected Officials and gaining broad community support to capitalize on numerous improvements in the next 20 years.

CAPITAL IMPROVEMENT STRATEGY

The development and implementation of the 5-year CIP will assure that the Solid Waste Fund is managed to flatten industry-based and cyclical environmental events and minimize residential rate fluctuations between major contracted services, program enhancements and capital projects.

CAPITAL REVENUE SOURCES

Fund Balance

The Solid Waste Enterprise Fund balance serves as the source of cash funding for capital projects in order to meet the City of Fort Worth's 20 year solid waste and related environmental program needs. Over \$30.8 million is available to support the annual operational budget, annual Pay as you Go Capital projects and 5-year CIP plan. Approximately \$2.95 million of the amount transferred will fund a portion of the FY2018 capital projects.

Residential Service Fee

As noted earlier, the residents pay a monthly Solid Waste Services fee based on the size of their trash cart, for any extra bags of trash (\$10 per bag or stickered bags) and for all non-compliant bulk or brush piles (\$65.00 for each five cubic yards of material, plus a one time administration fee of \$10.00 per collection). Since all three streams of revenue are fluid and change constantly, the annual additional revenue stream is projected based on a historic three year average, which is \$1,188,083 annually.

SELF Lease Payment

Since the SELF is owned by the City and contracted with Republic Services for operational lease and management aspects, the City receives an average annual lease payment from Republic of \$750,668 plus an average annual tonnage adjustment of \$446,903 to account for the volume of material disposed of at the SELF.

PROJECT SUMMARY OF PLANNED CAPITAL INVESTMENT

Projects are identified in three key areas:

1. Plans and Evaluations
2. Building, Equipment and Land Acquisitions
3. Program Enhancements and Development

The 5-year Solid Waste CIP plan table provides an overview of proposed costs and implementation schedules for each of the projects to be included in the 5-year 2018-22 Solid Waste CIP Plan. It is important to note that cost estimates for many solid waste projects are difficult to prepare without project evaluations and/or a site characterization completed through consultant/engineering studies.

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Solid Waste Fund

Five Year 2018-22 Solid Waste CIP Plan					
Projections for the Solid Waste Fund					
PROJECTED CIP EXPENSES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
<i>Low-volume Commercial Transfer Station Evaluation</i>	\$ 25,000				
<i>Residential Organic (Food) Recycling Collection</i>	\$ 35,000	\$ 35,000			
<i>Commercial C&D, Compost or Biosolids Feasibility Study</i>		\$ 45,000	\$ 25,000	\$ 25,000	
<i>Comprehensive SWM Plan - Recommendations</i>	\$ 233,750	\$ 50,000	\$ 50,000	\$ 25,000	\$ 25,000
<i>Grant of Privilege Audit</i>	\$ 35,200				
<i>SELF Landfill Gas Reclamation Evaluation</i>	\$ 50,000				
<i>Drop-off Station LED Signage</i>	\$ 450,000				
<i>4th Far North DOS</i>					
<i>5th Westside DOS</i>		\$ 2,200,000	\$ 2,500,000	\$ 2,000,000	
<i>Future Land & Facilities Use Needs</i>		\$ 3,500,000	\$ 3,500,000	\$ 2,500,000	
<i>HHW/Litter/Equipment Buildings</i>	\$ 450,000				
<i>Work Order Management System Programming Enhancements (HEAT / ITSM Upgrade)</i>	\$ 200,000				
<i>Commercial C&D/Compost Project</i>			\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
<i>Vehicles and Equipment Replacement:</i>					
<i>Litter Abatement Equipment</i>					
<i>DOS/HHW/ECC Equipment</i>	\$ 497,000	\$ 225,000	\$ 450,000	\$ 375,000	\$ 500,000
<i>Replacement Vehicles</i>					
<i>Street Sweeping & Vacuum Trucks</i>					
<i>DOS Equipment</i>		\$ 75,000	\$ 125,000		
<i>Litter Prevention - Streetscape Pedestrian Container Champaign</i>			\$ 500,000		
<i>ECC/HHW Equipment</i>		\$ 35,000	\$ 35,000		
<i>CNG Vehicle/Equipment Replacement</i>		\$ 165,000	\$ 165,000	\$ 165,000	\$ 165,000
<i>Brennan Conversion to T-station</i>		\$ 750,000	\$ 2,500,000		
TOTAL	\$1,975,950	\$ 7,080,000	\$ 11,850,000	\$ 7,090,000	\$ 2,690,000

Projects with Property Management and Technology Solutions					
PROJECTED CIP EXPENSES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
<i>Solid Waste Administrative Office Consolidation</i>	\$ 625,000				
<i>Solid Waste IT Projects</i>	\$ 350,000				
TOTAL	\$ 975,000	\$ -	\$ -	\$ -	\$ -

KEY PROJECT DESCRIPTIONS

1. Low-volume Commercial Transfer Station Evaluation Plan

Evaluate the direct benefits of converting an existing Drop-off Station (potentially Brennan) or opening a new centralized transfer station allowing small businesses and commercial clean-up crews to dispose of their commercial waste.

2. Residential Organic (Food) Recycling Feasibility Study

In order to achieve the CSWMP goal of increasing the residential recycling rate to 30% or higher by 2021, the diversion of the residential food waste from the City landfill would be a meaningful contribution towards that objective. A study to determine the feasibility of a residential organic-based recycling program - which also evaluates a subscription-based participation – should take place prior to a possible city-wide implementation of such a program.

3. Commercial C&D, Compost or Bio solids Feasibility Study

In order to advance the CSWMP's goal of achieving 40% diversion of all municipal solid waste by 2023 and 60% diversion by 2030, the implementation of either a commercial C&D recycling operation or a commercial scale compost program capable of handling bio solids or both will be crucial. In order to determine the feasibility of either or both projects an in-depth study of the alternatives is critical, while evaluating internal opportunities between Solid Waste, Water and/or Parks & Recreation, and potential Public-Private partnerships.

4. Comprehensive Solid Waste Management Plan – Expanded Recommendations Studies

Upon the completion of the CSWMP, the top three to five key recommendations will be prioritized and

supported with further evaluation and/or supporting implementation resources over the next five years. The actual recommendations will be selected from the list based on overall impacts balanced with short-term implementation strategies within commercial recycling opportunities, residential recycling processing agreement and improving the overall residential services with future enhancements.

5. Grants of Privilege Audit Evaluation

Commercial solid waste companies must permit their vehicles and pay the City of Fort Worth a five percent (5%) franchise fee of gross solid waste billed revenues. The City has not completed in depth audit of the current permitted companies nor evaluated the impact of companies that operate without being permitted until they are determined to be out of compliance. This audit is to confirm the accuracy of each permitted company and verify the revenue stream owed to the City.

6. SELF Landfill Gas Reclamation Evaluation

In partnership with Republic Services (current lease contractor for landfill), the City has determined a beneficial application of upgrading the current landfill gas collection system to allow for the necessary volumes and control mechanisms, ensuring controlled quality and quantity of methane gas. In addition, once operational, both partners would execute the most beneficial contract with a third party to purchase the methane gas towards generating a renewable energy source while reducing the greenhouse gas impacts. This study would evaluate and identify the most beneficial project (high BTU vs. low BTU) and third party proposal from vendors.

7. Drop-off Station (DOS) LED Signage

Equipping the City's four Drop-Off Stations (and possible the Environmental Collection Center) with electronic (LED) signage will not only allow for better communication with the DOS' customers, but will also provide a new platform to inform the public about other community-based activities, events and initiatives occurring throughout Fort Worth. Not only will these signs will improve the level of customer services received by the visits of each center, but they will improve the throughput of the centers and reducing the operational costs associated.

8. Westside (5th) DOS Land & Construction Project

As identified by citizen's request and supported by staff and the CSWMP consultant, the fifth (5th) citizen's DOS will need to be designed, located and implemented along the western side of the City within the next two (2) to five (5) years. Staff hopes to work in conjunction with another commercial solid waste vendor to co-locate or develop a public-private partnership in developing the next DOS, building synergy and long term cost savings. However, if a beneficial partnership cannot be executed in a timely manner, the City will need to advance this project solely after securing the appropriate land.

9. Future Land & Facilities Use Needs Assessment

As identified within the current development of the 20 Year CSWMP, future land and facilities will need to be evaluated to ensure the long term solidwaste disposal needs of Fort Worth will be available and secured. This project is to begin the process of setting aside or purchasing appropriate land and/or facilities that could help ensure long term disposal needs will be adequate. Based on current in-bound volumes, recycling rate and remaining capacity at the City's SELF, there is

between 19-33 years of remaining landfill life/air space available. The future land and facilities to be used in the next five (5) to thirty-five (35) years will be determined at the conclusion of this assessment project.

10. HHW/Litter/Equipment Building

As the Code Compliance Department has taken on the City's litter prevention and collection program in support of the City's Stormwater Permit and Environmental Management efforts, the acquisition of additional equipment, tools and systems are necessary. The purchasing of new equipment and tools will allow the Litter and Illegal Dumping crews as well as the crews of the DOS/HHW and the ECC to deliver effectively their respective services to the community.

11. Work Order Management System – Programming Enhancements

Upgrade the HEAT/ITSM work order system with program enhancements.

12. Commercial C&D/Compost Project

In order to advance the CSWMP's goal of achieving 40% diversion of all municipal solid waste by 2023 and 60% diversion by 2030, the implementation of either a commercial C&D recycling operation or a commercial scale compost program or both will be crucial. Either a public-private partnership or an internal opportunity between Solid Waste, Water and/or Parks & Recreation participation would be instrumental in accomplishing that goal. The potential capital funding has been allocated to support advancing the appropriate path forward and as determined through a greater consultant lead evaluations project.

13. Replacement Litter Abatement Equipment –

As the Code Compliance Department has taken on the City's litter prevention and collection program in support of the City's Stormwater Permit and Environmental Management efforts, the need for vehicle and equipment replacement has been identified. This equipment and vehicle replacement will allow the Litter and Illegal Dumping crews as well as that of the DOS/HHW and ECC to maintain and/or increase their productivity in delivering their respective services to the community.

14. City of Fort Worth Drop Off Station Equipment

As the Solid Waste team begins to collect additional residential volumes of donated materials and becomes a centralized location for community-based volunteer groups to perform litter collections, additional site equipment is needed to assist with operational improvements. Each DOS will need the required equipment (storage, litter collection supplies, power brooms and roadside signage) to maximize collections and minimize operational costs.

15. City of Fort Worth Litter Prevention –

The Code Compliance Department has taken on the City's litter prevention and collection program in support of the City's Stormwater Permit and Environmental Management efforts, the need for additional community-based trash and/or recycling containers has been identified by the Solid Waste team. The solar powered Big Belly units offer operational effectiveness as well as educational messaging associated with a citywide litter prevention program.

These units or other identified "streetscape" pedestrian containers will be strategically placed or coordinated with the appropriate City departments so that trash and/or recyclables are contained until

served instead of becoming litter all across the City, streets, parks, creeks and neighborhoods.

16. ECC/HHW Equipment Project

As the Solid Waste team begins to collect Fort Worth residential volumes of Household Hazardous Waste (chemicals and products) at the existing DOSs, which will allow greater volumes of material from contracted/partnering cities to be processed at the Environmental Collection Center. Each DOS will need the required equipment (containment barrels, portable trailer or stationary storage unit) to maximize collections and minimize operational costs.

17. CNG Vehicle/Equipment Replacement Project

In partnership with Waste Management, the City's future CNG fueling station will be implemented at the current MLK DOS facility. Therefore, Solid Waste has identified future equipment and vehicles to be replaced, which will utilize CNG fuel instead of diesel or gasoline. This project will help lead the City and area with cleaner emission based vehicles and reduce the negative impact of our air quality and greenhouse gases.

18. Brennan DOS Conversion to T-station Project

Based on the low-volume commercial transfer station study, the benefits of converting an existing Drop-off Station (currently Brennan) to allow small businesses, property owners and commercial clean-up crews to dispose of their non-compacted commercial solid waste in parallel with the citizens residential volumes. Since the commercial businesses do not currently support the DOS through fees, a future fee structure may be necessary.

OVERVIEW

The City of Fort Worth, Transportation and Public Works Department's Stormwater Management Program's (SWMP) mission is to protect people and property from harmful stormwater runoff. This is accomplished through: the operation, maintenance and improvement of the City's drainage system; the regulation of new development in the FEMA floodplain; the review of private development for compliance with City drainage standards; and by warning and informing the public regarding flood protection and water quality practices.

The City's drainage system includes over 900 miles of underground pipe, approximately 300 miles of engineered drainage channel, over 30,000 drainage inlets and numerous other drainage facilities such as detention ponds, bridge culverts, and bar ditches.

Fort Worth's SWMP is a very capital-intensive enterprise, which requires continuous investment in extensive above- and below-ground infrastructure. Continued investment in the drainage system is a prerequisite for the health and safety of the community it serves as well as economic growth and prosperity in the future.

The FY2018-2022 Capital Improvement Plan totals \$66,726,000 and funds capital improvements required to mitigate floodrisk, ensure system reliability by replacing aging infrastructure and facilities, support the City's bond programs for street rehabilitation, meet corporate priorities, and facilitate economic revitalization in areas where development is hampered by chronic flooding.

CATEGORIES

The SWMP's FY2018-2022 CIP provides funding for investments in the following 6 categories:

Neighborhood Drainage Improvements

Projects to mitigate flooding problems in neighborhoods generally arising from local drainage systems with inadequate capacity for large rain events.

Roadway Crossing and Channel Improvements

Projects to protect motorists from the risk of dangerous road overtopping.

Major Drainage Rehabilitation Improvements

Projects to create or upgrade drainage facilities such as detention ponds and natural creeks to mitigate regional flooding risk and/or erosion problems that pose a public safety risk or threaten public infrastructure.

Drainage Engineering Analysis

Engineering efforts to assess, prioritize, and develop conceptual solutions for flooding problems throughout the City.

Technology

Technology initiatives to update the SWMP Geographic Information System (GIS) with data on the existing drainage system that is key to the assessment of flood-prone areas and the development of flood mitigation projects and enhancements to the advanced flood warning system.

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Stormwater Management

**Summary of Projected Capital Investment
by Category**

The table titled Capital Investment Categories provides an overview of planned capital investment by Category for FY2018-2022 SWMP CIP.

Capital Investment Categories

Categories:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Neighborhood Drainage Improvements	\$ 8,706,000	\$ 1,441,000	\$ 8,392,000	\$ 6,437,000	\$ 7,752,000	\$ 32,728,000
Roadway Crossing & Channel Improvements	\$ 5,900,000	\$ 5,580,000	\$ -	\$ 1,668,000	\$ 500,000	\$ 13,648,000
Major Drainage Rehab	\$ 698,000	\$ 2,438,000	\$ 1,727,000	\$ 2,733,000	\$ 3,126,000	\$ 10,722,000
Drainage Engineering Analysis	\$ 1,100,000	\$ 1,400,000	\$ 1,050,000	\$ 800,000	\$ 850,000	\$ 5,200,000
Technology	\$ 500,000	\$ -	\$ -	\$ 150,000	\$ -	\$ 650,000
Capital Outlay	\$ 568,000	\$ 819,000	\$ 925,000	\$ 730,000	\$ 736,000	\$ 3,778,000
Total	\$ 17,472,000	\$ 11,678,000	\$ 12,094,000	\$ 12,518,000	\$ 12,964,000	\$ 66,726,000

CAPITAL IMPROVEMENT STRATEGY

The SWMP's Capital Improvement Strategy is driven by its mission to protect people and property from harmful stormwater runoff. The CIP is informed by many sources from within the SWMP and the City as well as external entities. These sources include:

- **Planning effort/risk assessments:** The SWMP conducts engineering assessments to understand the degree and cause of flooding in various parts the City and develop conceptual alternatives to mitigate the risk. This information is used to prioritize the use of capital improvement funding and to develop tools for comparing and

explaining the relative level of floodrisk throughout the City.

- **Historical flooding/customer reports:** The SWMP investigates customer reports of drainage problems. If the reported problem is something for which the SWMP is responsible, projects are initiated to correct problems that are within the existing resource capacity of the program. When current resources aren't sufficient to initiate corrective action, the problem is prioritized with other unfunded needs for project initiation as priorities and funding availability allows.

- **Corporate Priorities:** The SWMP provides drainage improvements or relocation projects in support of City Council-approved priority programs for the development of the city. Examples of these types of programs include the Trinity River Vision initiative and the Cultural District improvements.

- **Development Agreements/Community Facilities Agreements:** The Policy for the Installation of Community Facilities approved by the City Council provides for the SWMP's participation in upsizing drainage facilities beyond the size required to offset the impact of a proposed development to provide additional flood protection in the broader area. The SWMP's staff is in regular contact with the development community to identify opportunities for collaboration.

- **Collaboration with other public entities:** In developing flood mitigation alternatives, sometimes the property of other public entities is located in an area where a drainage improvement could be effective and/or the interests of another public entity could be served by drainage improvements. In such cases, SWMP staff engages with staff from the other entity to determine if there is an opportunity for a mutually beneficial project. Past efforts in this regard have resulted in partnerships with entities such as: the Fort Worth Independent School District and the Fort Worth Transportation Authority.

- **Legislative and Regulatory Mandates:** The Federal Government through the U.S. Environmental Protection Agency (USEPA) and the Texas Legislature through the Texas Commission on Environmental Quality (TCEQ)

regulate the operation and maintenance of the City's drainage system through the Municipal Separate Storm Sewer System (MS4) permit program. Various aspects of the SWMP CIP are key to maintaining compliance with MS4 permit requirements. Similarly, the effective execution of the SWMP is a key part of the City's standing with the Federal Emergency Management Agencies National Flood Insurance Program.

- **Condition Assessment and Maintenance History:** A high priority for the SWMP is to optimize the performance and maintainability of the existing system. Toward that end investments are made in: rehabilitating degraded drainage channels to perform as designed and to facilitate ongoing maintenance; assessing the pipe system to develop a criticality ranking so that repair and rehabilitation funds can be directed to the most critical parts of the system; maintaining and expanding the GIS map for the system to make the assessment and response to drainage problems as efficient as possible; and technology and fleet upgrades that enhance efficiency in maintaining, repairing, and improving the system. SWMP staff routinely inspect various aspects of the City's drainage system, either visually or via Closed Circuit Television, to identify, prioritize, and program rehabilitation and maintenance projects. The SWMP's work order system is also invaluable in identifying recurring drainage problems so that in depth investigation can identify underlying causes and develop solutions.
- **Coordination with the CIP's of other City Departments/Divisions:** The SWMP coordinates with other departments and divisions such as TPW Capital Delivery, Water,

Parks, and Planning and Development to identify areas where priorities and plans overlap so that collaborative projects can be developed that achieve multiple goals.

CIP Priority Criteria

The SWMP CIP is directly linked to the goals of: public safety, improving neighborhoods and communities, removing structures from floodplains, and encouraging economic growth. The SWMP’s specific goals and project prioritization scores are aligned with City-wide strategic goals as reflected in the capital project prioritization system used for the City’s Comprehensive Plan as follows:

Project Drivers

- Regulatory Risk
- Capacity
- Capital Replacement
- Efficiency/Sustainability

Tactical

- Citizen/Customer Satisfaction
- Prior CIP Approval
- Partnering Opportunity
- Healthy Environment

Strategic

- Safest City
- Improve Mobility
- Clean/Attractive City
- Strong Economy
- Development/Sustainability
- Improve Air Quality

Other Factors

- Inter-Organizational / Joint Infrastructure
- Leverage Funding
- Obligatory
- Time Sensitive

CAPITAL REVENUE SOURCES AND STRATEGY

The SWMP has identified funding for the \$66.7 million, five-year CIP from a variety of revenue sources, including Pay-Go cash from rate revenues and funds remaining from the Drainage Revenue Bond program.

Pay-Go:

Pay-Go for capital is budgeted each year and recovered through the rates charged to the SWMP’s ratepayers. Pay-Go funding sources for FY2018-FY2022 CIP total \$65.7 million and include \$60.5 million of cash from annual resources as a transfer from Operating, \$2.9 million of prior year net resources held as excess fund balance, and \$2.3 million of prior year’s cash reserved in the Pay-Go Capital Projects Fund.

To achieve the FY2018-FY2022 funding sources over the next five years, the SWMP plans to increase its annual cash investment in the CIP year over year from \$11.3 million in FY2018 to \$13.0 million in FY2022.

Drainage Revenue Bond Program

Since the establishment of the Stormwater Utility fee in 2006, the SWMP has sold a total of \$150 million in Revenue Bonds in 3 different issuances: 2007 (\$25 million), 2009 (\$45 million), and 2011 (\$80 million). The size and timing of future revenue bond sales will be determined by City leadership based on overall City priorities and within established financial and programmatic guidelines (e.g. debt to revenue ratios, reserve requirements, pay-go to debt proportions). FY2018-2022 will allocate \$1.0 million of funds remaining from the Drainage Revenue Bond program to capital.

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Stormwater Management

Summary of Projected Capital Investment by Revenue Source

The following table provides an overview of identified revenue sources to fund the anticipated appropriation schedule for FY2018-2022 SWMP

CIP. The appropriation is scheduled to support planned projects

Summary of Capital Investment by Revenue Source

Funding Sources:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Pay as You Go - Stormwater: Transfer from Operating (52001)	\$ 11,253,996	\$ 11,678,000	\$ 12,094,000	\$ 12,518,000	\$ 12,964,000	\$ 60,507,996
Pay as You Go - Stormwater: Excess Fund Balance (52001)	\$ 2,868,660					\$ 2,868,660
Pay as You Go - Stormwater: Capital Projects Fund (52002)	\$ 2,328,253					\$ 2,328,253
Stormwater Revenue Bonds - Capital Projects Fund (59651)	\$ 1,021,091					\$ 1,021,091
Total	\$ 17,472,000	\$ 11,678,000	\$ 12,094,000	\$ 12,518,000	\$ 12,964,000	\$ 66,726,000

OPERATIONS AND MAINTENANCE IMPACT

Most of the improvements in the FY2018-2022 SWMP CIP will improve existing systems to function more effectively. New infrastructure that functions more effectively than the existing system translates into reduced maintenance and repair expenses. Some of the projects will create new detention facilities that will require periodic maintenance. These new expenses, though, are expected to be more than offset by reduced maintenance requirements resulting from the upgrades made via the overall program with no net increase to O&M costs.

PROGRAM SUMMARY DETAIL BY CATEGORY

1. NEIGHBORHOOD DRAINAGE IMPROVEMENTS

Projects to mitigate flooding problems in neighborhoods generally arising from local drainage systems with inadequate capacity for large rain events.

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Stormwater Management

Program Summary: Neighborhood Drainage Improvement

Projects:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Central Arlington Heights - Voluntary Buyout and Detention Improvements	\$ 1,675,000					\$ 1,675,000
Dry Branch Creek Interim Detention Basin (Design)					\$ 500,000	\$ 500,000
Forest Park Detention Improvements (Zoo Creek)	\$ 1,000,000					\$ 1,000,000
Greenfield Acres Drainage Improvements - Phase 2 (Design, ROW, etc.)			\$ 176,000			\$ 176,000
Greenfield Acres Drainage Improvements - Phase 2 (Construction)				\$ 5,040,000		\$ 5,040,000
Hammond Street Drainage Improvements (Design, ROW, etc.)	\$ 200,000					\$ 200,000
Hammond Street Drainage Improvements (Construction & Services)	\$ 3,131,000					\$ 3,131,000
Kimbo Court Drainage Improvements	\$ 300,000					\$ 300,000
Minor Repair & Renovations - Easements	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Minor Repair & Renovations - Paving & Concrete	\$ 250,000	\$ 520,000	\$ 550,000	\$ 550,000	\$ 550,000	\$ 2,420,000
Overton South Detention (Upper Willow Lake Channel Imp Phase 1: Design)				\$ 377,000		\$ 377,000
Overton South Detention (Upper Willow Lake Channel Imp Phase 1: Construction)					\$ 6,152,000	\$ 6,152,000
Washington Heights Drainage Improvements (Design, ROW, etc.)				\$ 420,000		\$ 420,000
Westcliff Drainage - Ph1 (Design, ROW, etc.)		\$ 871,000				\$ 871,000
Westcliff Drainage - Ph1 (Construction & Services)			\$ 7,616,000			\$ 7,616,000
Westcliff Drainage - Ph2 (Construction & Services)	\$ 2,100,000					\$ 2,100,000
Westcliff Drainage - Ph3 (Design)					\$ 500,000	\$ 500,000
Total	\$ 8,706,000	\$ 1,441,000	\$ 8,392,000	\$ 6,437,000	\$ 7,752,000	\$ 32,728,000

FY2018 Project Descriptions:

Central Arlington Heights – Voluntary Home Buyout and Detention Improvements

This project is located in Central Arlington Heights on Western and Carleton Avenues between El Campo and Bryce Avenues. Numerous homes in this area are subject to flooding during relatively frequent storm events. Affected residents have asked that their properties be bought out. The purpose of the project is to eliminate future flood losses for up to 13 homes through voluntary acquisition and reduce flood risk in the surrounding neighborhood through implementation of multi-use detention and greenspace. City Council approved applying for a grant in an amount up to \$5,025,000 from the Federal Emergency Management Agency's Hazard Mitigation Grant Program for this effort. If approved the grant will contribute 75% of the project cost while the City's 25% match of cash and in-kind service will be in an amount up to \$1,675,000 for a total project cost up to \$6,700,000.

Dry Branch Creek Interim Detention Basin (Design)

This project is located along Dry Branch Creek south of 28th Street, east of Blandin Street and North of Hollis Street. This project will reduce the flood risk in this area by expanding an existing detention area through voluntary acquisition and demolition of properties along Blandin and Hollis.

Forest Park Detention Improvements / Zoo Creek

This project is located in Forest Park bounded by Park Hill Drive, Sandage, McPherson & McCart Avenues. A wall will be constructed in Forest Park such that the park will serve as a detention area in heavy rain events. The detention will provide interim flood mitigation and creek erosion protection in the Zoo and create the future

opportunity to complete drainage improvements upstream of Forest Park to mitigate a chronic flood risk along McCart Avenue north and south of Berry Street. This is a joint project with the Parks and Recreation Department in conjunction with the 2014 City-wide Capital Improvement Plan project to make improvements in Zoo Creek.

Greenfield Acres Drainage Improvements Phase 2

This project is located near the intersection of IH-820 and Jacksboro Highway. The limits of the project are: Boat Club Road on the west, Shadydel Drive on the south, Marine Creek Lake on the east, and Ten Mile Bridge Road on the north. When the neighborhood was incorporated into City of Fort Worth, the existing barrow ditch drainage system and an existing channel were inadequate leading to flooding of residential properties on Cindy Lane. This is phase 2 of an effort to mitigate the flood risk. Phase 1 will be constructed in 2017/2018 to provide storm drain lines, inlets and detention improvements from Ten Mile Bridge Road along Cindy Lane to south of South Ridge Road. In Phase 2, detention improvements will be expanded and more storm drains and inlets installed to expand the area of flood mitigation.

Hammond Street Drainage Improvements

This project is located on Hammond Street between Timothy and IH-35W. The downstream storm drain system is undersized and, during heavy storms, the roadway overtops at the intersection of Hammond and Burleson causing flooding of homes. A new storm drain system for the Hammond Street area upstream of IH-35W will be installed.

Kimbo Court Drainage Improvements

This project is located on Kimbo Court west of Bonnie Brae. The current drainage system is

inadequate. A storm drain system will be installed in conjunction with the Kimbo Road Street project.

Minor Repair & Renovation – Easements

These funds are used to purchase easements associated with reactive projects that come up during the course of each year.

Minor Repair & Renovation – Paving & Concrete

This is a budget item to cover the cost of concrete and paving associated with Field Operations infrastructure and pipe repair projects. This concrete/paving work extends the useful life of the infrastructure asset and is, therefore, a capital expenditure.

Overton South Detention (Upper Willow Lake Channel Improvements Phase 1)

This project will develop a plan to address both stream flooding and overland flooding throughout the Overton South neighborhood. The project will develop a specific configuration to utilize the 4 acres of vacant flood prone property south of IH 20 that was acquired by the City for regional detention and to determine limits of channel improvements needed to accommodate any drainage improvements. This detention is going to be the first phase of improvements needed for future drainage improvements within the Overton South neighborhood to alleviate an undersized channel and undersized storm drain system. Until this detention is built, no improvements can be installed to alleviate home flooding along Westlake Drive.

Washington Heights Drainage Improvements

This project would address the existing undersized storm drain system downstream of Meacham Airport from 38th and Houston Streets to 35th and Calhoun Streets. During heavy rain events, 38 residences and historic businesses in the Washington Heights area are at risk of flooding and runoff overtops Commerce, Main, 35th, and Calhoun Streets creating a life safety risk for motorists. New storm drains would be installed along Houston Street and connected to a new detention basin at Main and 36th Streets.

Westcliff Drainage

This project is a multi-phased initiative to mitigate residential flooding in the Westcliff community. Phase 2B is located south of Bilglade Road, north of Berry Street, east of Manderly Place and west of Cockrell Avenue. This project will construct a storm drain and tie into the previously constructed Surrey storm drain. Full effectiveness will be achieved when Phase 1 is constructed. Phase 1 (final project) will construct storm drain and inlets on Suffolk Drive from Granbury Road to Anita Avenue; on Anita Avenue from Suffolk Drive to Manderly Place; on Manderly Place from Anita Avenue to Trail Lake Drive; and, on Trail Lake Drive from Manderly Place to outfall south of Encanto.

2. ROADWAY CROSSING AND CHANNEL IMPROVEMENTS

Projects to protect motorists from the risk of dangerous road overtopping.

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Program Summary: Roadway Crossing and Channel Improvements

Projects:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
East Como Area Drainage Improvements (Design)					\$ 500,000	\$ 500,000
Lebow Channel Roadway Crossing-Lower 28th, Dewey & Brennan	\$ 4,200,000					\$ 4,200,000
Loving Ave. - Culvert and Channel Improvements (Design, ROW, etc.)	\$ 200,000					\$ 200,000
Loving Ave. - Culvert and Channel Improvements (Construction)		\$ 5,280,000				\$ 5,280,000
Parker Henderson Road Culvert Improvements (Construction)	\$ 1,500,000					\$ 1,500,000
Plantation Creeks Culvert Improvements (Design)		\$ 300,000				\$ 300,000
Plantation Creeks Culvert Improvements (Construction)				\$ 1,408,000		\$ 1,408,000
Royal Creek Channel Repair and Culvert Improvements (Design)				\$ 260,000		\$ 260,000
Total	\$ 5,900,000	\$ 5,580,000	\$ -	\$ 1,668,000	\$ 500,000	\$ 13,648,000

FY 2018 Project Descriptions:

East Como Area Drainage Improvements

The project is located in the East Como Area and is bounded by Blackmore Avenue to the north, Prevost Street to the west, Neville Street to the east and West Vickery Boulevard to the south to provide flood mitigation for multiple residences and the elimination of a low water crossing. The proposed improvements include expanded channels and upsized culverts along Blackmore and Helmick Avenues. The project would require both residential and commercial property acquisitions. The project will also consider the need for additional detention.

Lebow - Channel Roadway Crossing – Lower 28th, Dewey & Brennan

The Brennan Crossing is part of the multi-phase Lebow Channel Roadway Crossing Project. The existing culverts are undersized, resulting in roadway overtopping. A multi-barrel culvert will be installed. Public Art will be included.

Loving Ave. – Culvert and Channel Improvements

This project is located along Loving Avenue between 31st Street and 28th Street. There is residential flooding and road overtopping during minor rain events. The project would upsize culverts and construct channel improvements to improve the capacity of the drainage system. The project

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proposes to permanently terminate Prairie Ave at 30th St. with a cul-de-sac.

Parker Henderson Road Culvert Improvements

This project is located along Prairie Dog Creek east of Parker Henderson Road in southeast Fort Worth. The Parker Henderson Road culvert crossing provides less than the 2-year level of service and road overtopping poses a risk to motorists and pedestrians, especially children who use that route to walk to school. The improvements consist of expanding the culvert, raising the bridge by approximately 6', and making channel improvements to increase the capacity of the drainage system. This project is being completed as a part of a City-wide Capital Improvement Plan project to widen this arterial and provide sidewalks for a safer pedestrian route between residences and the school.

Plantation Creeks Culvert Improvements

This project is located along Guadalupe Channel adjacent to Bangor Drive and Slade Boulevard in southwest Fort Worth. The Slade Boulevard and Bangor Drive culvert crossings have an existing

level of service less than the 2-year event. The project includes upsizing of the existing culverts at Slade Boulevard and Bangor Drive to provide improved conveyance capacity at the crossing.

Royal Creek Channel Repair and Culvert Improvements

This project is located along Royal Creek between Wycliff Street and Mary's Creek Drive in southwest Fort Worth. The proposed improvements consist of replacement of culverts at Wycliff Street and Mary's Creek Drive to mitigate road overtopping and replacement of a failed drop structure causing severe erosion in Royal Creek.

3. MAJOR DRAINAGE REHABILITATION PROJECTS

Projects to create or upgrade drainage facilities such as detention ponds and natural creeks to mitigate regional flooding risk and/or erosion problems that threaten private property and/or public infrastructure.

Program Summary: Major Drainage Rehabilitation Improvements

Projects:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Major Drainage Rehab - Reactive/Property Acquisition	\$ 698,000	\$ 2,214,000	\$ 1,727,000	\$ 2,173,000	\$ 3,126,000	\$ 9,938,000
Forty Oaks Drainage Improvements (Design, ROW, etc.)		\$ 224,000				\$ 224,000
Forty Oaks Drainage Improvements (Construction)				\$ 560,000		\$ 560,000
Total	\$ 698,000	\$ 2,438,000	\$ 1,727,000	\$ 2,733,000	\$ 3,126,000	\$ 10,722,000

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FY2018 Project Descriptions:

Major Drainage Rehabilitation - Reactive

Drainage Improvements/Property Acquisition

This is funding set aside to respond to urgent issues that develop/are discovered in the drainage system during the course of the year that need immediate response. Such issues are typically corrected by an open-ended task order contract or, on some occasions, by SWMP field operations crews. Additionally, these funds can be used when appropriate to purchase private property to facilitate drainage improvements.

Forty Oaks Drainage Improvements

This project is in Lower Como Creek between Collett Park and Bonnell Avenue, behind homes fronting on Driskell Blvd. Progressive creek erosion is causing property damage in the back of residential properties along Driskell Blvd. Structural and gravity erosion control improvements to arrest damaging erosion and preserve property will be installed.

4. DRAINAGE ENGINEERING ANALYSIS

Engineering efforts to assess, prioritize, and develop conceptual solutions for flooding problems throughout the City.

Program Summary: Drainage Engineering Analysis

Projects:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Emergency Engineering Evaluations	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 750,000
Project Development & Prioritization	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 3,000,000
Drainage Infrastructure - Pipe Condition & Assessment	\$ 250,000	\$ 500,000	\$ 300,000			\$ 1,050,000
Water Quality Assessment - Geomorph		\$ 150,000				\$ 150,000
Flood Warning Assessment	\$ 100,000			\$ 50,000	\$ 100,000	\$ 250,000
Total	\$ 1,100,000	\$ 1,400,000	\$ 1,050,000	\$ 800,000	\$ 850,000	\$ 5,200,000

FY2018 Project Descriptions:

Emergency Engineering Evaluations

These evaluations are performed by consultants on an as needed basis to identify drainage solutions that mitigate flood risk and increase the level of service of responses to citizen concerns regarding localized flooding.

Project Development & Prioritization

Consultant services to identify City-wide flood problems and prioritize areas for high level strategic planning and more detailed feasibility planning. Based on findings, projects are developed that are effective, acceptable to the community, and affordable. These projects are then programmed into the 5-year SWMP CIP for implementation as priorities and funding availability allows.

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Drainage Infrastructure- Pipe Condition and Assessment

The Pipe Condition Assessment Program provides a City-wide assessment of pipe conditions by rating pipe condition supported by video documentation. This information is used to determine maintenance and future project needs.

Channel Flood / Water Quality Assessment- Geomorph

These assessments are performed by consultants and are for the purpose of developing engineered solutions for erosion control problems based on the nature of stream and bank instabilities determined by geo-morphology specialists.

Advanced Flood Warning Assessment

These assessments are performed by consultant and are for the purpose of evaluating the feasibility of real time flood modelling to determine the feasibility of providing advance warning of flooding so that cautionary measures can be taken and warnings issued in advance of the hazard developing.

5. TECHNOLOGY

Included in this category are: initiatives to update the SWMP Geographic Information System (GIS) with data on the existing drainage system that is key to the assessment of floodprone areas and the development of flood mitigation projects, development of an early warning system for flooding, and periodic updates in the billing system software to keep the system from going obsolete.

Program Summary: Technology

Projects:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Infrastructure GIS Data Mgmt - Channel Infrastructure	\$ 500,000					\$ 500,000
Advance Flood Warning System Upgrade				\$ 150,000		\$ 150,000
Total	\$ 500,000	\$ -	\$ -	\$150,000	\$ -	\$ 650,000

FY2018 Project Descriptions:

Infrastructure GIS Data Management – Channel Infrastructure

This funding is to gather key data on drainage channels around the City and add the information to the SWMP GIS system. These data are key to understanding the performance of the drainage system and planning solutions to flooding problems.

Advance Flood Warning System Upgrade

This funding will pay for periodic upgrades to the software system used in the High Water Warning System to send alerts to remote users of the system.

6. CAPITAL OUTLAY

Capital asset purchases to support operations and maintenance of the SWMP including routine replacement of heavy equipment & vehicles, minor tools & equipment and technology.

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Program Summary: Capital Outlay

Projects:	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5 Yr. CIP
Maintenance Vehicles & Equipment Replacement	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000
Minor Tools & Equipment	\$ -	\$ 113,000	\$ 116,000	\$ 119,000	\$ 122,000	\$ 470,000
IT Hardware & Software	\$ 50,000	\$ 98,000	\$ 100,000	\$ 102,000	\$ 105,000	\$ 455,000
Rain and Stream Gauges		\$ 100,000	\$ 200,000			\$ 300,000
Minor Office Equipment & Furnishings	\$ 18,000	\$ 8,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 53,000
Total	\$ 568,000	\$ 819,000	\$ 925,000	\$ 730,000	\$ 736,000	\$ 3,778,000

FY2018 Project Descriptions:

Maintenance Vehicles & Equipment Replacement
 Routine replacement of heavy equipment & vehicles supporting maintenance of existing infrastructure.

Minor Tools & Equipment

Routine replacement of capital tools and equipment used in the daily course of operations including construction and maintenance operations. Examples of tools and equipment include: weed eaters, chain saws, concrete vibrators, air compressors, commercial backpack blowers, electric dowling drills, handheld concrete saws, gas powered mixers, and nozzles for vacuums.

IT Hardware & Software

Scheduled replacement of Information Technology hardware and software including desktops and mobile data computers supporting daily operations for office and field maintenance personnel.

Rain and Stream Gauges

Rain and stream gauges for monitoring flooding, providing planning data and supporting the Advanced Warning System.

Minor Office Equipment & Furnishings

Routine replacement of capital tools and equipment.

PAST ACCOMPLISHMENTS

Over the last five years, the SWMP has expended an average of \$25 million/year for flood mitigation capital projects.

Some of the most significant projects for which funds were expended in FY2013-2017 include:

- East Rosedale Culvert Improvements
- Butler-McClure Culvert Improvements
- Cromwell Marine Creek Culvert Improvements
- Forest Park-Parkview Storm Drain Rehabilitation
- Lebow Channel Crossing – Dewey Street

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- Eastern Hills Drainage Improvements Phases 1 and 2
- Central Arlington Heights-Ashland Drainage Improvements
- Mercado Channel Improvements
- Central Arlington Heights-Western Drainage Improvements
- Trinity Boulevard Culvert Improvements

LOOKING TO THE FUTURE

The SWMP 5-year CIP is based on the remaining revenue bond funds from previous debt sales plus about \$11 million/year on Pay-Go funding from stormwater utility fee revenue. This level of funding only enables reduction of flooding through smaller, incremental projects. There are significantly more flooding problems than can be addressed at that funding level. SWMP staff estimate that it would cost roughly \$300 - \$400 million to substantively address the flood risks in the City that are considered to represent critical public safety risks. It would take decades to address all of these situations based on a gradual growth in the Pay-Go funding based on growth in the revenue base. Beyond the critical needs are nuisance drainage issues (some chronic and severe) that would take another several hundred million dollars to correct. Additionally, over 30% of the existing drainage pipe system is over 50 years old and much of it will need to be rehabilitated over the coming years in order to avoid large scale system failures that create damaging sinkholes and flooding during heavy rains.

In FY2018, the SWMP will finalize the update of its strategic master plan. A significant element of the plan will be refinement of policies and strategies regarding flood mitigation in the City of Fort Worth. The process to update the master plan has included

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a significant public input component to seek to ensure that flood mitigation policies and strategies reflect a consensus of the community. The updated master plan will refine and proportion the “tool bag” for mitigating flooding and erosion in Fort Worth, seeking to optimize program effectiveness by: ensuring that flood and erosion protection level of service goals are realistic and consistent with community desires; considering the appropriate use of property buy outs and flood warning in lieu of capital improvements; becoming increasingly opportunistic about public-public and public-private partnerships; and ensuring that the method for prioritizing needs is reflective of the community consensus. The master plan update process will also lead to development of policies regarding recurring issues such as: voluntary property buyouts, private channel erosion, local floodplains, and development oversight.

Among the most significant flooding problems that are not addressed by the current Stormwater 5-year CIP are those in: Western Arlington Heights, the Forest Park Blvd/West Berry Street area, the Near West Side/Linwood area, the Near Southside area, and the Lebow Channel area on the north side of town.

OVERVIEW

The Fort Worth Water Department (Utility) is a regional provider of water and sewer services to more than 1.2 million people in Fort Worth and surrounding communities, including 30 wholesale water customers, 23 wholesale wastewater customers and three wholesale reclaimed water customers. Fort Worth's system has a total treatment capacity of 500 million gallons per day (MGD) for drinking water and 166 MGD for wastewater, with five water treatment plants and one water reclamation facility. The Fort Worth utility includes more than 3,420 miles of pipe in the water distribution system, 3,312 miles in the collection system, and a wide-ranging assembly of pump stations, lift stations, and storage facilities to serve its customers. With more than \$3.2 billion in fixed assets, Fort Worth's utility is a very capital-intensive enterprise, which requires continuous investment in extensive above- and below-ground infrastructure.

The Utility's mission is to enable our community to thrive with clean water done right every time. Continued investment in the utility system is a prerequisite for the health and safety of the community it serves as well as economic growth and prosperity in the future. The 2018-2022 Capital Improvement Plan totals \$1,013,134,946 and funds capital improvements required to ensure system reliability by replacing aging infrastructure and facilities, comply with regulatory requirements, support the City's bond programs for street rehabilitation, meet corporate priorities and serve anticipated growth in the system.

CATEGORIES

Fort Worth's 2018-2022 CIP funds infrastructure improvements in its two major utility systems: Water and Wastewater. The Fiscal Year 2018-2022 program includes projects organized into ten categories, consisting of the following:

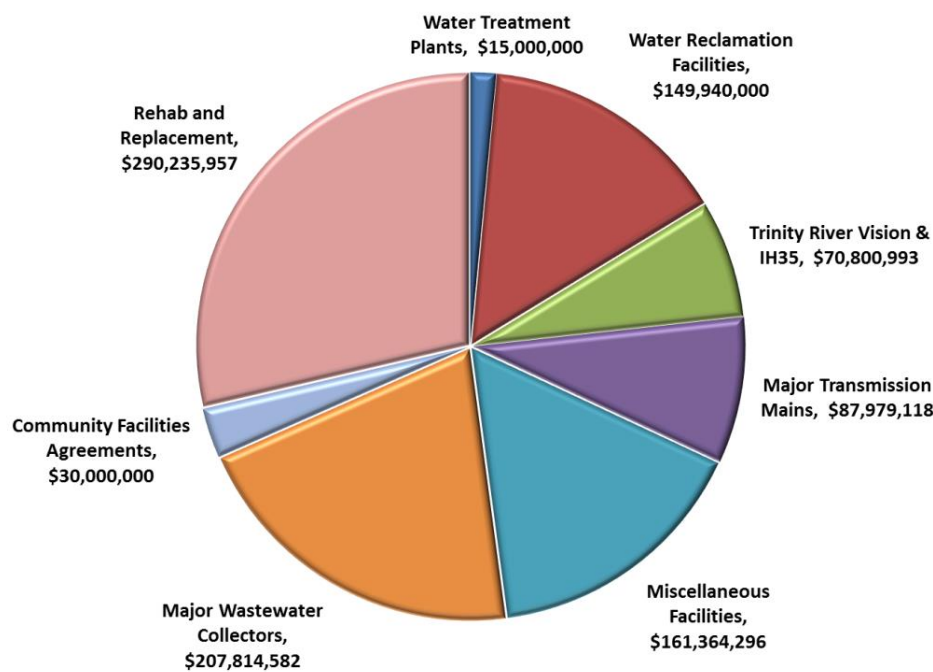
1. **Water Treatment Plants:** Projects located at the Utility's five water treatment plants (Eagle Mountain, North & South Holly, Rolling Hills and Westside)
2. **Water Reclamation Facilities:** Projects located at the water reclamation facilities (Village Creek and future Mary's Creek)
3. **Trinity River Vision (TRV) and IH-35:** Projects related to the TRV initiative and IH35 expansion
4. **Major Transmission Mains:** Projects related to transmission mains of 16-inch diameter or larger
5. **Miscellaneous Facilities:** Projects related to water storage tanks and pump stations, sewer lift stations and force mains, wholesale customer water and sewer meter stations, and Lake Worth
6. **Major Wastewater Collectors:** Projects related to wastewater collection mains of 24-inch diameter or larger
7. **Community Facilities Agreements:** Projects related to development or redevelopment that include Utility participation to oversize water and/or sewer mains to accommodate anticipated future growth
8. **Rehabilitation and Replacement:** Projects related to water mains smaller than 16 inches in diameter or sewer mains smaller than 24 inches in diameter
9. **Street Maintenance:** Projects replacing water and/or sewer mains under streets to be replaced as part of the City's street bond programs, or

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- other street maintenance and replacement programs
10. **Sanitary Sewer Overflow Initiative (SSOI)**
Program: Projects to eliminate sanitary sewer

overflows as required to comply with federal and state regulations



The total \$1billion FY2018-2022 CIP investment by category is shown above. The Rehabilitation and Replacement segment reflects the total of the Rehabilitation and Replacement, Street Maintenance and Sanitary Sewer Overflow Initiative categories combined.

CAPITAL IMPROVEMENT STRATEGY

The Utility’s Capital Improvement Strategy is driven by its mission to enable our community to thrive with clean water done right every time, which serves as the basis for the CIP. The CIP is developed from many sources from within the Utility and the City as well as exterior sources. These sources include:

- **Master Plans (Systems, Operational and Technology):** Master Plans are developed to

provide a road map for future facilities to be installed generally within a 20-year timeframe, with updates performed every ten years. System Master Plans include the Water and Wastewater Master Plans, which project growth-related facility needs in the water and wastewater systems, including anticipated treatment plant expansions. System Master Plans also include the Lake Worth Comprehensive Capital Improvement Implementation Plan which establishes specific capital improvements in and

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around Lake Worth. Operational master plans include the Bio-Solids Master Plan which recommends future bio-solids disposal processes. Technology master plans include the Information Technology (IT) Master Plan that identifies future IT requirements and needs.

- **Operational Enhancement:** Utility staff continuously review and monitor operations and customer service activities and develop initiatives for enhanced customer service or operational cost reductions. The MyH2O Advanced Metering Infrastructure project is an example of this type of enhancement.
- **Corporate Priorities:** The Utility provides water and sewer improvements or relocation projects in support of City Council-approved priority programs for the development of the city. Examples of these types of programs include the Trinity River Vision initiative, the Cultural District improvements and the Near Southside Medical District Redevelopment projects.
- **Development Agreements/Community Facilities Agreements:** The Policy for the Installation of Community Facilities approved by the City Council provides for the Utility's participation in upsizing water and sewer facilities from the size required to provide service to a proposed development to the size required by the Water and/or Wastewater Master Plan to provide service for future growth in the area. Utility staff remain in regular contact with the development community to monitor upcoming needs and priorities.
- **Legislative and Regulatory Mandates: The Federal** Government through the U.S. Environmental Protection Agency (USEPA) and the Texas Legislature through the Texas Commission on Environmental Quality (TCEQ) develop process, operational and maintenance requirements which must be met within regulatory timelines. While normally related to treatment plant processes, the requirements also extend to the water distribution and wastewater collection systems. Examples include the Utility's participation in the TCEQ SSOI program to minimize sanitary sewer overflows, as well as an ongoing initiative to replace all public side lead services from the water system.
- **Condition Assessment and Maintenance History:** Utility staff routinely review the operation and maintenance records of water and sewer mains and facilities for rehabilitation or replacement needs due to high maintenance costs or pending failure. These types of projects are identified through facilities assessment studies, programs such as the Interceptor Condition Assessment Program and Water Efficiency Condition Assessment Program, and staff review of maintenance records to identify infrastructure that can no longer be effectively maintained.
- **Street Maintenance:** In support of the City's street bond programs and other street maintenance and replacement projects, the Utility replaces water and sewer lines located under the streets to be replaced based on maintenance history, pipeline materials, and age.

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CIP Priority Criteria

The development of the five-year CIP is based on established priorities using available debt, cash and impact fee funding for each year within the five-year program. Factors used in developing CIP priorities include: impacts to Public Health and Safety or those requiring emergency response; regulatory, legal or safety requirements; City Charter or contractual obligations; maintaining infrastructure integrity; balancing project benefits and risks with project costs; eliminating or limiting negative impacts to the general public; providing a beneficial effect on the lives of a significant segment of the population; and addressing corporate priorities.



CAPITAL REVENUE SOURCES AND STRATEGY

The Utility has identified funding for the \$1 billion, five-year CIP from a variety of revenue sources, including cash from annual rate revenues and funds remaining from legacy water and sewer capital projects, the Water & Sewer Revenue Bond

program, multiple Texas Water Development Board programs, gas well revenues and impact fees.

Cash and Legacy Water/Sewer Capital Projects

Cash is budgeted each year and recovered through the rates charged to the Utility’s ratepayers. Cash budgeted for capital projects in 2018 totals \$58 million and is targeted primarily to fund rehabilitation and replacement projects. Over the next five years the Utility plans to increase its cash investment in the CIP each year to a total of \$69.3 million in 2022. In addition, the Utility will use \$11.2 million in funds remaining from previously completed water and sewer capital projects over the five-year period.

Water and Sewer Revenue Bond Program

Enacted in 1991, the Water and Sewer Revenue Bond program enables the Utility to invest in its infrastructure and facilities through the issuance of long-term debt. Previously incurred debt will decrease significantly over the next five years, allowing capacity for the Utility to issue additional debt over the five-year period.

Texas Water Development Board – Drinking Water/Clean Water State Revolving Loan Funds

The Texas Water Development Board offers low-cost financial assistance for the planning, design, and construction of water and sewer infrastructure to utilities under its Drinking Water and Clean Water State Revolving Loan Fund (SRF) programs. Fort Worth has used the SRF programs’ below-market interest rate loans to fund eligible projects in the past and will continue to take advantage of these cost-effective programs as needs arise. In FY2017, the Water Department applied for a low interest \$17 million Clean Water State Revolving Loan that includes \$946,157 of loan forgiveness due to the sustainable nature of the projects. This funding is

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being utilized for the Main 503 Village Creek, the Main 210 Colonial area and the West Fork Main 280/338 Trunk Sewer Main Rehabilitation Projects in FY2018- 2019.

Texas Water Development Board – State Water Implementation Fund for Texas

Passed by the Texas Legislature and approved by Texas voters through a constitutional amendment, the State Water Implementation Fund for Texas (SWIFT) program assists communities in developing and optimizing water supplies and conservation initiatives at cost-effective rates. Fort Worth is using SWIFT funds to develop and implement the MyH2O Advanced Metering Infrastructure project over the next five years, using \$63 million of SWIFT funds in FY2018-2020.

Gas Well Revenues

In 2005, the City Council adopted the Gas Well Revenue policy to establish city-wide spending parameters for gas well revenues. The Utility has allowed gas well drilling at several of its facilities that have resulted in revenue available to fund capital projects. The CIP uses gas well revenues of \$23.9 million which will be used to fund eligible projects at Lake Worth and the Village Creek Water Reclamation Facility.

Impact Fees

The Utility has collected water and wastewater impact fees since the early 1990s to fund growth-related infrastructure. In compliance with Chapter 395 of the Local Government Code, the Utility develops land use assumptions and a capital improvements plan of impact fee-allowable capital projects, which will serve projected growth over a ten-year planning period. Updates are prepared at least every five years and impact fees are used to fund these plan updates. The most recent Impact

Fee Study was completed in 2016, with the City Council adopting new maximum assessable impact fees as well as a three-year phased collection plan that will increase impact fee collections to 40 percent of the new maximum assessment and reduce the ratepayer subsidy of growth-related capital improvements. The new impact fees took effect on April 1, 2017. The next Impact Fee Study will occur in FY2019.

Summary of Projected Capital Investment by Source

The following table provides an overview of identified revenue sources to fund the FY2018-2022 Water and Wastewater CIP. The table also includes an appropriation schedule to reflect the timing of planned projects.

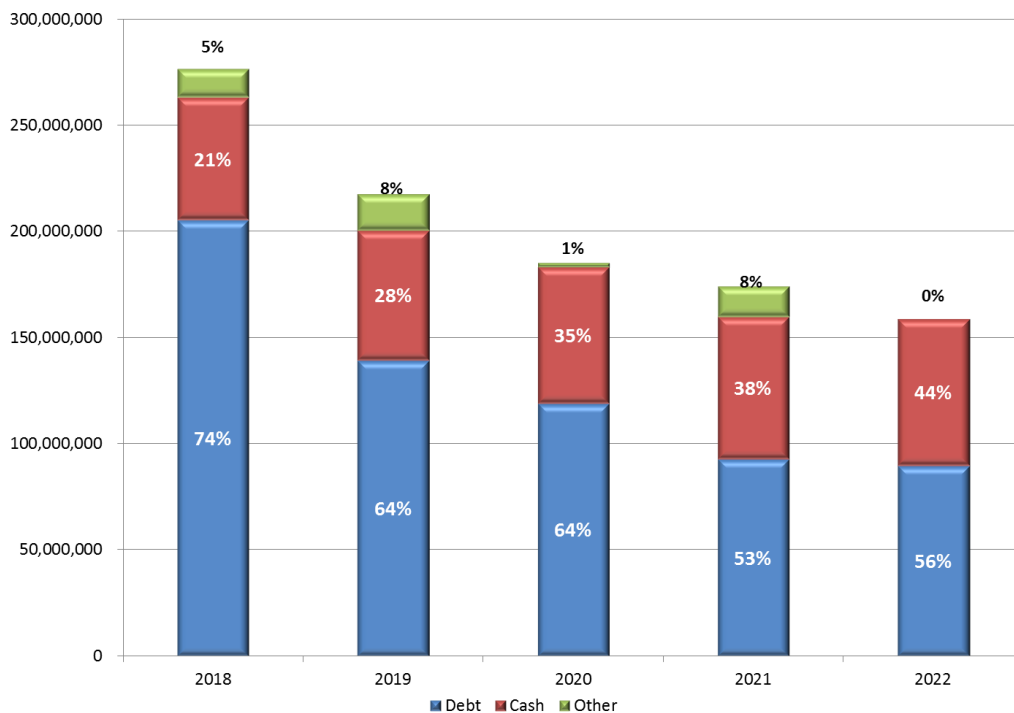
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Summary of Projected Capital Investment by Source

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projected Funding Sources						
Revenue Bonds	\$ 135,396,300	\$ 131,957,185	\$ 119,115,263	\$ 92,717,672	\$ 89,801,383	\$ 568,987,803
Gas Well Revenues	\$ 4,750,000	\$ 13,100,000	\$ 900,000	\$ 5,100,000	\$ -	\$ 23,850,000
Cash	\$ 58,091,925	\$ 61,168,736	\$ 64,115,168	\$ 67,094,431	\$ 69,250,140	\$ 319,720,400
Sewer Impact Fees	\$ -	\$ 2,650,000	\$ 800,000	\$ 7,500,000	\$ -	\$ 10,950,000
Water Impact Fees	\$ -	\$ 550,000	\$ 500,000	\$ -	\$ -	\$ 1,050,000
TWDB State Revolving Loan Fund	\$ 6,827,189	\$ 7,500,000	\$ -	\$ -	\$ -	\$ 14,327,189
TWDB SWIFT	\$ 63,000,000	\$ -	\$ -	\$ -	\$ -	\$ 63,000,000
Legacy Water/Sewer Capital Fund	\$ 8,499,554	\$ 750,000	\$ -	\$ 2,000,000	\$ -	\$ 11,249,554
Total Sources	\$ 276,564,968	\$ 217,675,921	\$ 185,430,431	\$ 174,412,103	\$ 159,051,523	\$ 1,013,134,946

The following chart summarizes the Utility's projected investment in the CIP by revenue source. Further details of the planned projects are provided in subsequent tables for each project category.



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PROGRAM SUMMARY BY CATEGORY

Water Treatment Plants

All projects to be performed at the Utility's five water treatment plants (Eagle Mountain, North & South Holly, Rolling Hills and Westside) are outlined in the chart below. These projects can

include plant expansion projects to accommodate growth; regulatory required process additions or modifications; and rehabilitation or replacement of existing older and/or obsolete equipment. The total estimated spend over the next five years is \$15 million.

Program Summary: Water Treatment Plants

FY2018 Project Descriptions

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
North Holly Water Treatment Plant Sludge Collection System	\$ 750,000	\$ 3,000,000	\$ -	\$ -	\$ -	\$ 3,750,000
Zebra Mussel Raw Water Chlorination Station	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ 250,000
Westside Water Treatment Plant Expansion	\$ -	\$ 400,000	\$ 500,000	\$ -	\$ -	\$ 900,000
South Holly Flocculator Improvements	\$ -	\$ 600,000	\$ 4,500,000	\$ -	\$ -	\$ 5,100,000
Eagle Mountain Water Treatment Plant Expansion	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000
Total	\$ 750,000	\$ 4,000,000	\$ 5,250,000	\$ 5,000,000	\$ -	\$ 15,000,000
Funding Sources						
Revenue Bonds	\$ 750,000	\$ 3,600,000	\$ 4,750,000	\$ 5,000,000	\$ -	\$ 14,100,000
Water Impact Fees	\$ -	\$ 400,000	\$ 500,000	\$ -	\$ -	\$ 900,000
Total Sources	\$ 750,000	\$ 4,000,000	\$ 5,250,000	\$ 5,000,000	\$ -	\$ 15,000,000

- North Holly Water Treatment Plant Sludge Collection System:** This project will install circular sludge collectors at the North Holly sedimentation basins, which will allow longer plant run times between basin washings and reduce staff maintenance costs. Two plant expansions are planned in the next five years, including the expansion of the Westside Plant by 3 MGD by purchasing/installing another membrane rack in FY2020 and a project to initiate the engineering required for an expansion of the Eagle Mountain Plant in FY2021.

Water Reclamation Facilities

All projects at the Village Creek Water Reclamation Facility and projects for the future Mary's Creek Water Reclamation Facility are outlined in the chart below. These projects include plant expansion projects for growth, regulatory required process additions or modifications, process upgrades and modifications for plant efficiency improvement, and rehabilitation or replacement of existing older and/or obsolete equipment. The total estimated funding requirement over the next five years is \$149.9 million.

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Program Summary: Water Reclamation Facilities

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Village Creek - Chlorine Conversion & Enclosure	\$ 3,250,000	\$ -	\$ -	\$ -	\$ -	\$ 3,250,000
Village Creek - Bar Screen Bldg #3 Modification	\$ -	\$ 500,000	\$ 500,000	\$ -	\$ -	\$ 1,000,000
Village Creek - Grit System and Flow Consolidation	\$ 300,000	\$ 17,100,000	\$ -	\$ -	\$ -	\$ 17,400,000
Village Creek - Primary Clarifiers	\$ -	\$ -	\$ 3,000,000	\$ -	\$ 16,000,000	\$ 19,000,000
Village Creek - Bio-Solid Master Plan Implementation	\$ 8,000,000	\$ 2,500,000	\$ -	\$ 42,500,000	\$ -	\$ 53,000,000
Village Creek - Disinfection Alternatives	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000
Mary's Creek - Water Reclamation Facility	\$ -	\$ 1,500,000	\$ -	\$ 4,500,000	\$ -	\$ 6,000,000
Village Creek - Minor Improvements	\$ 1,630,000	\$ -	\$ 230,000	\$ 330,000	\$ 4,100,000	\$ 6,290,000
Village Creek- Energy Efficiency and Performance Improvements	\$ 500,000	\$ 4,000,000	\$ -	\$ -	\$ -	\$ 4,500,000
Village Creek - MCC/Switchgear Replacements - Phase I	\$ 7,500,000	\$ 7,500,000	\$ 7,000,000	\$ -	\$ -	\$ 22,000,000
Village Creek - Administrative Complex Foundation Rehab	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ 200,000
Village Creek - Thickener Improvements	\$ -	\$ 14,800,000	\$ -	\$ -	\$ -	\$ 14,800,000
Village Creek - Facilities Plan	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Total	\$ 21,180,000	\$ 48,900,000	\$ 10,930,000	\$ 48,830,000	\$ 20,100,000	\$ 149,940,000
Funding Sources						
Revenue Bonds	\$ 17,430,000	\$ 42,400,000	\$ 10,730,000	\$ 44,330,000	\$ 20,100,000	\$ 134,990,000
Cash	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ 200,000
Sewer Impact Fees	\$ -	\$ 2,500,000	\$ -	\$ 4,500,000	\$ -	\$ 7,000,000
Gas Well Revenues	\$ 3,750,000	\$ 4,000,000	\$ -	\$ -	\$ -	\$ 7,750,000
Total Sources	\$ 21,180,000	\$ 48,900,000	\$ 10,930,000	\$ 48,830,000	\$ 20,100,000	\$ 149,940,000

FY2018 Project Descriptions:

- **Village Creek - Chlorine Conversion and Enclosure:** This project will construct an enclosure over the chlorine and sulfur dioxide tanks and includes the installation of scrubbers.
- **Village Creek – Grit System and Flow Consolidation:** This project will install a grit removal system located downstream of the existing fine screens, designed to remove fine grit from the liquid stream. The removal of grit from the liquid stream should result in improved performance of the digesters, extending the

duration between cleaning of basins and digesters, and improve the long term life and performance of rotating equipment, such as pumps and mixers. Currently the Village Creek Plant process does not include a grit removal system near the headworks of the plant, resulting in grit accumulation in the aeration basins and anaerobic digesters, as well as premature wear of rotating equipment parts.

- **Village Creek - Bio-Solids Master Plan Implementation:** This funding provides for two projects: The first project is the installation of

an additional liquid bio-solids storage tank along with the necessary pumps and odor control equipment at the dewatering facility. The additional bio-solids storage tank was identified in the Bio-Solids Master Plan to allow on-site storage during wet weather events and to allow maintenance of de-watering equipment. The second project is the installation of bio-solids dryer equipment. The bio-solids dryer process was identified in the Bio-Solids Master Plan as a long-term alternative to land application and an alternative revenue source, as dried bio-solids are a marketable commodity.

- **Village Creek - Minor Improvements:** This funding provides for several small projects at the Village Creek Water Reclamation Facility. These include equipment modifications, and rehabilitation and facility installation projects requested by plant staff to resolve various issues and address needs
- **Village Creek Energy Efficiency and Performance Improvements:** This project will repair or replace aging equipment necessary for the generation, processing, and transportation of methane from the anaerobic digestion process. (Carried over from FY2017.)
- **Village Creek – MCC/Switchgear Replacements – Phase I:** This project is the first of a three phase project to systematically replace aging and corroded electrical equipment and switchgear at the Village Creek Plant. Phase I will focus on electrical equipment replacement

in the primary clarifier and primary effluent pump station areas.

Trinity River Vision and IH-35

Outlined in the chart below is funding for water and sewer work for the regional Trinity River Vision (TRV) and IH-35W Expansion projects. The water and sewer portion of the TRV program relocates water and sewer lines that are in conflict with the U.S. Army Corps of Engineers (USACE) Trinity River Vision-Central City flood control project (costs reimbursable) and extending or increasing the size of water and sewer mains to address City operational or future development requirements (costs not reimbursable). The TRV program includes a master plan adopted by the City Council and is in partnership with the Tarrant Regional Water District (TRWD), Trinity River Vision Authority (TRVA), USACE, Tarrant County, the Texas Department of Transportation (TxDOT) and Streams and Valleys, Inc. It is anticipated the City will be reimbursed for a portion of the costs as defined in the Interlocal Cooperative Agreement with the TRWD adopted by the City Council, although no reimbursements have been received to date.

The relocation of water and sewer lines in conflict with the expansion/widening of IH-35W is being performed in partnership with TxDOT. TxDOT is widening IH-35W from Spur 280 north to Eagle Parkway, requiring the relocation of water and sewer mains in conflict with the project. The relocations, with the exception of City betterments, are partially reimbursable. The total estimated spend over the next five years is \$70.8 million.

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Water

Program Summary: Trinity River Vision and IH-35

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
IH35 Expansion - Water and Sewer	\$ 2,900,000	\$ 400,000	\$ 400,000	\$ -	\$ -	\$ 3,700,000
Trinity River Vision Program - Water and Sewer	\$ 7,067,300	\$ 26,939,000	\$ 19,681,000	\$ 1,889,000	\$ 11,524,693	\$ 67,100,993
Total	\$ 9,967,300	\$ 27,339,000	\$ 20,081,000	\$ 1,889,000	\$ 11,524,693	\$ 70,800,993
Funding Sources						
Revenue Bonds	\$ 9,967,300	\$ 27,339,000	\$ 20,081,000	\$ 1,889,000	\$ 11,524,693	\$ 70,800,993
Total Sources	\$ 9,967,300	\$ 27,339,000	\$ 20,081,000	\$ 1,889,000	\$ 11,524,693	\$ 70,800,993

Major Transmission Mains

Projects related to transmission mains of 16-inch diameter or larger are outlined in the table below.

Projects are driven by growth and regional initiatives. The total estimated spend over the next five years is \$88 million.

Program Summary: Major Transmission Mains

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Cultural District - Water Line Replacement	\$ 468,000	\$ 8,806,000	\$ 168,000	\$ 7,876,000	\$ -	\$ 17,318,000
Major Transmission Mains Other Improvements	\$ 3,570,000	\$ 1,200,000	\$ 4,360,000	\$ 1,100,000	\$ 9,175,000	\$ 19,405,000
16" Transfer WSII to WSIII Pressure Plane	\$ -	\$ -	\$ -	\$ 408,672	\$ 4,150,000	\$ 4,558,672
Southeast Water Main Connections	\$ -	\$ 2,800,000	\$ -	\$ -	\$ -	\$ 2,800,000
54" NSIII Water Line - EMWTP to Hicks Field	\$ -	\$ -	\$ 733,000	\$ -	\$ 3,778,444	\$ 4,511,444
24" Holly Water Main - Churchill Road	\$ -	\$ 2,559,600	\$ -	\$ -	\$ -	\$ 2,559,600
Southside Water Maint to Serve Burleson and Crowley	\$ -	\$ 1,482,585	\$ 13,343,263	\$ -	\$ -	\$ 14,825,848
FM156 Water and Sewer Relocations	\$ 4,821,000	\$ -	\$ -	\$ -	\$ -	\$ 4,821,000
30" NSII Water Main - Northeast Extension	\$ 4,049,554	\$ -	\$ -	\$ -	\$ -	\$ 4,049,554
Water Line Replace - Southside Medical District	\$ 4,900,000	\$ 4,530,000	\$ 3,700,000	\$ -	\$ -	\$ 13,130,000
Total	\$ 17,808,554	\$ 21,378,185	\$ 22,304,263	\$ 9,384,672	\$ 17,103,444	\$ 87,979,118
Funding Sources						
Revenue Bonds	\$ 13,759,000	\$ 16,848,185	\$ 18,604,263	\$ 9,384,672	\$ 12,003,444	\$ 70,599,564
Cash	\$ -	\$ 4,530,000	\$ 3,700,000	\$ -	\$ 5,100,000	\$ 13,330,000
Legacy Water/Sewer Capital Fund	\$ 4,049,554	\$ -	\$ -	\$ -	\$ -	\$ 4,049,554
Total Sources	\$ 17,808,554	\$ 21,378,185	\$ 22,304,263	\$ 9,384,672	\$ 17,103,444	\$ 87,979,118

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FY2018 Project Descriptions:

- **Cultural District – Water Line Replacements:** This multi-phase project replaces and relocates existing undersized water lines in the Cultural District in conflict with new facilities or in advance of new road construction. The Cultural District Improvements are a City Council priority.
- **Major Transmission Mains Other Improvements:** This funding provides for smaller and development-driven major transmission main projects. Some have been identified in the Water Master Plan and some have been identified by Utility staff as
- requiring relocation for street projects or rehabilitation/replacement.
- **FM156 Water and Sewer Relocations:** This project consists of 8-inch 48-inch water and 12-inch 15-inch sanitary sewer relocations in conflict with TxDOT proposed roadway and storm sewer at the Heritage Trace Parkway, Harmon Road, Bailey Boswell Road and Basswood Boulevard intersections.
- **30-Inch Northside II Water Main -Northeast Extension:** This project provides for the Northside II Water Transmission Main along Alliance Gateway Freeway (SH 170) from the existing Northside II 30-inch water transmission main crossing Independence Parkway to Denton Highway (US 377). This project is identified in the update to the Water Master Plan. Due to recent growth in the Alliance Gateway Freeway corridor from the city and nearby wholesale water customers, the need for this water main has accelerated.

- **Water Line Replacement – Southside Medical District:** This project includes the replacement of deteriorated water and sewer lines in advance of street reconstruction projects in the Southside Medical District. Fort Worth South, Inc., has funded the Near Southside Medical District street repair and reconstruction program to provide streetscape and public right-of-way improvements.

Miscellaneous Facilities

Miscellaneous facility projects are outlined in the table below and include water storage tanks and pump stations, sewer lift stations and force mains, wholesale customer water and wastewater meter stations and all Lake Worth capital projects. New facility projects or expansion projects are identified in the Water and Wastewater Master Plans to support growth within the city. Rehabilitation or replacement projects for existing facilities have been identified by Utility staff during periodic inspection or evaluations. Lake Worth projects are part of the City Council-approved Lake Worth CIIP Program funded primarily with gas well revenue. The total estimated spend over the next five years is \$161.4 million.

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Water

Program Summary: Miscellaneous Facilities

Projects	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Main 272 Replacement Clear Fork Sewer	\$ 2,000,000	\$ 1,000,000	\$ 16,000,000	\$ -	\$ -	\$ 19,000,000
Bonds Ranch Lift Stations	\$ -	\$ -	\$ 600,000	\$ -	\$ -	\$ 600,000
Denton Creek Lift Station	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000
Live Oak Regional Lift Station and Force Main	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 400,000
Lake Arlington Lift Station and Force Main	\$ 3,000,000	\$ 5,000,000	\$ 15,000,000	\$ -	\$ -	\$ 23,000,000
Walsh Ranch Lift Station and Force Mains Phase IVB	\$ -	\$ -	\$ 200,000	\$ 1,288,000	\$ -	\$ 1,488,000
My H2O/Advanced Metering Infrastructure (AMI)	\$ 63,000,000	\$ -	\$ -	\$ -	\$ -	\$ 63,000,000
Lake Worth Dredging	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
Lake Worth Hike/Bike Trail System	\$ -	\$ 6,000,000	\$ 900,000	\$ 5,100,000	\$ -	\$ 12,000,000
Lake Worth Watercress Low Pressure Sewer System	\$ 400,000	\$ 3,100,000	\$ -	\$ -	\$ -	\$ 3,500,000
Love Circle Park Improvements	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Lakeside Settlement Agreement Utility Extension	\$ 3,000,000	\$ -	\$ -	\$ 2,000,000	\$ -	\$ 5,000,000
Lake Worth Dam Rehabilitation	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Jenkins Heights Lift Station and Force Mains	\$ -	\$ 2,200,000	\$ -	\$ -	\$ -	\$ 2,200,000
Westside Tanks	\$ 6,000,000	\$ -	\$ 1,650,000	\$ 12,000,000	\$ -	\$ 19,650,000
Westside Pump Station	\$ -	\$ -	\$ -	\$ 464,000	\$ 5,242,296	\$ 5,706,296
Northside Pump Station Expansion	\$ -	\$ 200,000	\$ -	\$ 1,000,000	\$ -	\$ 1,200,000
Calmont Tank Rehab	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
Seminary Hills & Willow Springs Tank Rehab	\$ 1,720,000	\$ -	\$ -	\$ -	\$ -	\$ 1,720,000
Iron Horse Meter Station	\$ -	\$ -	\$ -	\$ -	\$ 800,000	\$ 800,000
Total	\$ 80,920,000	\$ 17,500,000	\$ 34,350,000	\$ 21,852,000	\$ 6,742,296	\$ 161,364,296
Funding Sources						
Revenue Bonds	\$ 13,720,000	\$ 8,400,000	\$ 32,650,000	\$ 13,464,000	\$ 6,742,296	\$ 74,976,296
Gas Well Revenues	\$ 1,000,000	\$ 9,100,000	\$ 900,000	\$ 5,100,000	\$ -	\$ 16,100,000
Sewer Impact Fees	\$ -	\$ -	\$ 800,000	\$ -	\$ -	\$ 800,000
TWDB SWIRFT	\$ 63,000,000	\$ -	\$ -	\$ -	\$ -	\$ 63,000,000
Legacy Water/Sewer Capital Fund	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -	\$ 2,000,000
Cash	\$ 3,200,000	\$ -	\$ -	\$ 1,288,000	\$ -	\$ 4,488,000
Total Sources	\$ 80,920,000	\$ 17,500,000	\$ 34,350,000	\$ 21,852,000	\$ 6,742,296	\$ 161,364,296

FY2018 Project Descriptions:

- **Main 272 Replacement Clear Fork Sewer:** This project consists of a wet weather lift station and force main designed to convey peak flows from the existing hydraulic bottleneck located near IH-30 and University Drive to the existing

gravity sewer lines west of downtown near the confluence of the Clear Fork and West Fork basins. (Carried over from FY2017.)

- **Lake Arlington Lift Station and Force Main:** This project consists of the installation of gravity sewer mains, a regional lift station, and

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approximately six miles of force main designed to convey peak flows from southeast Fort Worth and the wholesale customers of Burleson, Crowley, Everman and Forest Hill. The lift station is planned to be located at the Southeast Landfill property and will pump wastewater around the western shore of Lake Arlington, to connect to the existing trunk gravity sewer mains in the vicinity of Lancaster Avenue and Green Oaks Road. This project has been identified as a high priority in the Wastewater Master Plan due to the capacity limitations in the existing pipes, the occurrence of wet weather overflows, and the need to provide for future growth.

- **My H2O/Advanced Metering Infrastructure (AMI):** This multi-phase project is a water conservation initiative approved by the City Council using the State Water Implementation Revenue Fund for Texas (SWIFT) program. This program will give customers new tools and information to better understand and manage their water use, promote efficiencies from treatment to tap and improve processes and operations across the utility. The project includes the replacement of all existing water meters with AMI-capable devices and infrastructure to transmit data readings. The AMI project also includes data network interface and system integration, meter data management system licensing and hardware, customer web-portal design and implementation, distribution system leak detection sensors/monitors, consulting services, staff training and extensive public education and outreach.
- **Lake Worth Dredging:** This project consists of the permitting and engineering to secure an

Army Corps of Engineers environmental permit necessary for a dredging project to remove sediment from previously dredged areas in Lake Worth. (Carried over from FY2016-2017.)

- **Lake Worth Watercress Low Pressure Sewer System:** This project is a continuation of a program designed to remove septic tanks from properties along and in close proximity to Lake Worth. As part of this project, individual lot grinder pumps and a centralized low pressure collection system will be installed along Watercress Drive that will convey wastewater to the newly constructed Casino Beach Lift Station.
- **Love Circle Park Improvements:** This project will add park improvements including, but not limited to, 4,800 linear feet of six foot wide concrete trail, five solar security lights and seven park benches to fulfill the Love Circle Park Improvement Plan.
- **Lakeside Settlement Agreement Utility Extension:** This project will fulfill an agreement reached between the Town of Lakeside and the City of Fort Worth. Under the agreement, in April 2018 Lakeside will release the portion of their water Certificate of Convenience and Necessity (CCN) located within the City of Fort Worth, affecting 91 water customers. This project will install the water lines necessary to provide water service to these 91 customers after the CCN has been released.
- **Lake Worth Dam Rehabilitation:** This project consists of minor structural repairs to the Lake Worth Dam. (Carried over from FY2017.)

- **Westside Tanks:** This project includes the Westside V Elevated Storage Tank and Transmission Line, in which a new 1 million gallon elevated storage tank will be installed to serve the Westside V pressure plane. In 2016, the Westside V pressure plane was created by the startup of the Walsh Ranch Pump Station and the installation of the Morningstar flow control station. In its present state, the Walsh Ranch Pump Station must operate continuously in order to keep the system pressurized. The new elevated tank will allow the Walsh Pump Station to operate intermittently as needed to maintain storage within the tank, while providing both stable pressure and fire protection for the entire pressure plane, which includes developments such as Walsh Ranch, Morningstar, and Beggs Ranch.
- **Calmont, Seminary Hills & Willow Springs Tank Rehabilitation:** These projects involve repairing the existing coating system on the Calmont and Seminary Hills elevated water storage tanks which are twenty years old and have internal and external coating failures, resulting in corrosion of the steel structure. Rehabilitation of these two tanks will consist of removal of the interior and external coating system followed by a complete recoating of the tank steel surfaces. The Willow Springs Tank Rehabilitation will consist of the removal and replacement of the internal coating system within the tank. Recent inspection of this tank revealed several areas where the coating system had failed to properly adhere to the steel. Temporary repairs were made by staff, but in order to properly protect the tank, the existing coating system needs to be completely removed and replaced

Major Wasterwater Collectors

Projects related to transmission mains of 24-inch diameter or larger are outlined in the table below. Projects are driven by growth and rehabilitation and replacement needs. The total estimated spend over the next five years is \$207.8 million.

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Program Summary: Major Wastewater Collectors

Projects	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Main 210 Colonial Area Sewer Improvements	\$ 2,750,000	\$ -	\$ -	\$ -	\$ -	\$ 2,750,000
Main 325 Village Creek Basin Parallel Relief Sewer	\$ 9,000,000	\$ -	\$ -	\$ -	\$ -	\$ 9,000,000
Main 257 Village Creek Basin Parallel Relief Sewer	\$ 21,000,000	\$ -	\$ -	\$ -	\$ -	\$ 21,000,000
Sewer Extension - Sandy Lane/Trice Court	\$ -	\$ 300,000	\$ 1,300,000	\$ -	\$ -	\$ 1,600,000
Chisholm Trail Parkway Main 311 Abandonment and Lift Station	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000
Main 402 Big Fossil Parallel Relief Sewer	\$ -	\$ 11,000,000	\$ 1,200,000	\$ -	\$ 10,000,000	\$ 22,200,000
Main 347/386 Upper Big Fossil Parallel Relief Sewer	\$ 6,500,000	\$ -	\$ -	\$ -	\$ -	\$ 6,500,000
Main 280/338 West Fork Rehabilitation	\$ -	\$ 8,250,000	\$ -	\$ -	\$ -	\$ 8,250,000
Wastewater Master Plan Update	\$ -	\$ -	\$ -	\$ 3,000,000	\$ -	\$ 3,000,000
Little Fossil Creek Interceptor Improvements	\$ 2,150,000	\$ 4,000,000	\$ -	\$ -	\$ -	\$ 6,150,000
Main 503 Village Creek Sewer Main Rehabilitation	\$ 5,527,189	\$ -	\$ -	\$ -	\$ -	\$ 5,527,189
Main 275 Sycamore Creek Basin Parallel Relief Sewer	\$ 4,650,000	\$ 7,240,000	\$ 1,200,000	\$ -	\$ 9,462,470	\$ 22,552,470
Major Wastewater Collectors Other Improvements	\$ -	\$ -	\$ -	\$ 1,850,000	\$ 9,568,480	\$ 11,418,480
Cultural District - Sewer Line Replacement	\$ 520,000	\$ -	\$ -	\$ -	\$ -	\$ 520,000
Eagle Mountain to Big Fossil Diversion	\$ 7,000,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000,000
Upper Clear Fork Interceptor Improvements	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Walsh Ranch Sewer Extension	\$ 3,500,000	\$ -	\$ -	\$ -	\$ -	\$ 3,500,000
Main 34, 100 and D100 Downtown Central District Sewer Replacements	\$ -	\$ 2,630,000	\$ -	\$ -	\$ -	\$ 2,630,000
Main 365 Marine Creek basin Parallel Relief Sewer	\$ 2,000,000	\$ 2,000,000	\$ 3,000,000	\$ -	\$ -	\$ 7,000,000
Main 615 Clear Fork Basin Replacement Interceptor	\$ -	\$ -	\$ 1,500,000	\$ 6,500,000	\$ 500,000	\$ 8,500,000
Main 295 Village Creek Basin Replacement Sewer	\$ -	\$ -	\$ 900,000	\$ 3,000,000	\$ 3,000,000	\$ 6,900,000
Main 199 West Fork Basin Parallel Relief Sewer Line	\$ 600,000	\$ -	\$ 4,000,000	\$ -	\$ -	\$ 4,600,000
Main 245 Parallel Interceptor	\$ 1,500,000	\$ 1,000,000	\$ 12,000,000	\$ -	\$ -	\$ 14,500,000
Main 513 Parallel Interceptor in the Clear Fork Basin	\$ 500,000	\$ -	\$ 3,000,000	\$ 400,000	\$ 3,000,000	\$ 6,900,000
Crowley Parallel Line in the Village Creek Basin	\$ 12,750,000	\$ -	\$ -	\$ -	\$ -	\$ 12,750,000
Parallel 30" Interceptor in the Clear Fork Basin	\$ -	\$ -	\$ -	\$ 600,000	\$ 4,657,730	\$ 5,257,730
New Interceptor in the Clear Fork Basin	\$ -	\$ -	\$ -	\$ 800,000	\$ 3,908,713	\$ 4,708,713
Total	\$ 83,047,189	\$ 36,420,000	\$ 28,100,000	\$ 16,150,000	\$ 44,097,393	\$ 207,814,582
Funding Sources						
Revenue Bonds	\$ 74,770,000	\$ 27,870,000	\$ 26,800,000	\$ 13,150,000	\$ 33,930,950	\$ 176,520,950
TWDB State Revolving Loan Fund	\$ 6,827,189	\$ 7,500,000	\$ -	\$ -	\$ -	\$ 14,327,189
Cash	\$ -	\$ 300,000	\$ 1,300,000	\$ -	\$ 10,166,443	\$ 11,766,443
Sewer Impact Fees	\$ -	\$ -	\$ -	\$ 3,000,000	\$ -	\$ 3,000,000
Legacy Water/Sewer Capital Fund	\$ 1,450,000	\$ 750,000	\$ -	\$ -	\$ -	\$ 2,200,000
Total Sources	\$ 83,047,189	\$ 36,420,000	\$ 28,100,000	\$ 16,150,000	\$ 44,097,393	\$ 207,814,582

FY2018 Project Descriptions:

- **Main 210 Colonial Area Sewer Improvements:**
This project will replace an existing undersized

and deteriorated sewer main located in a sanitary sewer easement, with a portion aligned within the Colonial Country Club property. The new sewer line planned to serve this area will be

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sized to convey future peak flows and located within street right of way to provide better access for future maintenance activities.

- **Main 325 Village Creek Basin Parallel Relief Sewer:** This project provides for the installation of a parallel relief sewer from the M-257 connection upstream to the Crowley wholesale wastewater meter station. It is anticipated that capital contributions will be received from Crowley for its pro-rata share of the construction costs, based on wastewater design flows. This project has been identified as a high priority in the Wastewater Master Plan due to capacity limitations of the existing sewer main. (Carried over from FY2017.)
- **Main 257 Village Creek Basin Parallel Relief Sewer:** This is a multi-phase project to install a parallel relief sewer main from the Forest Hill connection south to the Burleson wholesale wastewater meter station. It is anticipated that capital contributions will be received from both Burleson and Crowley for their pro-rata share of the construction costs, based on wastewater design flows. This project has been identified as a high priority in the Wastewater Master Plan due to capacity limitations of the existing sewer main.
- **Chisholm Trail Parkway Main 311 Abandonment and Lift Station:** This project is driven by a developer agreement, whereby the Water Department is obligated to install a small wastewater lift station to convey wastewater flows from an area located north of the Trinity River and west of Bryant Irvin Rd. The Department has requested the development review an option to collect wastewater from this

area using gravity sewer lines in lieu of the proposed lift station. This proposal is being evaluated at this time, with the initiation of the project dependent on the outcome of the developer's decision on this proposal. (Carried over from FY2016-2017.)

- **Main 347/386 Upper Big Fossil Relief Sewer:** This project is part of a regional plan to transfer wastewater generated in the Eagle Mountain Lake watershed to the Big Fossil sewer collection system, thereby bypassing the Marine Creek and Downtown sewer collection systems. As part of this project, approximately 7,000 linear feet of the existing undersized 24-inch sewer line will be paralleled with a 48-inch relief sewer line, providing the additional capacity needed to convey peak flows from future growth.
- **Little Fossil Creek Interceptor Improvements:** This is a multi-year project to provide additional capacity to the Little Fossil Creek sewer collection system, which provides service to Fort Worth retail customers, as well as the wholesale customers of Haltom City, Saginaw, and Blue Mound. The first phase of this project will construct a replacement 48-inch sewer line starting at the downstream connection with the 90/96-inch diameter West Fork Trunk Sewer Line and extend north, crossing Airport Freeway.
- **Main 503 Village Creek Sewer Main Rehabilitation:** This is a multi-phase project to rehabilitate the Main 503 sewer main along the west side of Lake Arlington and north of the Lake Arlington Dam. This project was identified by the Utility's Field Operations staff as having high maintenance due to corrosion

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and sewer overflow problems into Lake Arlington. (Carried over from FY2017.)

- **Main 275 Sycamore Creek Parallel Relief Interceptor:** This is a multi-phase project that will initially install a parallel relief sewer from IH-30 south through the Sycamore Creek Golf Course to Vickery Boulevard. Future phases will continue the parallel relief sewer line further upstream through Cobb Park to Berry Street. This project has been identified as a high priority in the Wastewater Master Plan due to capacity limitations of the existing sewer main. (Carried over from FY2017.)
- **Cultural District – Sewer Line Replacement:** This multi-phase project replaces and relocates the existing undersized sewer line in the Cultural District in conflict with new facilities or in advance of new road construction. The Cultural District Improvements are a City Council priority.
- **Eagle Mountain to Big Fossil Diversion:** The existing Dosier Creek Lift Station currently pumps from the Eagle Mountain drainage basin to the Marine Creek drainage basin via a single 12-inch force main. This project will install a new larger diameter force main from the existing Dosier Creek Lift Station to the Big Fossil drainage basin. The project also includes a gravity sewer extension within the Big Fossil drainage basin. This project has been identified as a high priority in the Wastewater Master Plan due to capacity limitations of existing pipes in the Marine Creek Basin, and will improve system redundancy by providing two discharge force mains from the Dosier Creek Lift Station.
- **Upper Clear Fork Interceptor Improvements:** This project will replace portions of the existing large diameter trunk sewer system identified during field inspections to be structurally damaged from corrosion.
- **Walsh Ranch Sewer Extension:** The Walsh Ranch Development agreement contains certain conditions that trigger Fort Worth to make utility extensions. The submittal of a preliminary plat for an area located south of IH-30 within the Walsh Ranch property requires the extension of a sewer trunk main from the existing main located at the Lost Creek Golf Course upstream to the Walsh Ranch Property.
- **Main 365 Marine Creek Basin Parallel Relief Sewer:** This project consists of the rehabilitation of Marine Creek Interceptor lines along Huffines Road, Cromwell Marine Creek Road and Boat Club Road. (Carried over from FY2017.)
- **Main 199 West Fork Basin Parallel Relief Sewer Line:** This project will parallel an existing sewer main that is undersized and needed to convey existing flows as well as flows from future growth in west Fort Worth. This project will install a parallel relief line south of the West Fork of the Trinity River, located within the City of Westworth Village.
- **Main 245 Parallel Interceptor:** This project consists of the installation of approximately 14,000 linear feet of relief trunk sewer main, as well as a siphon crossing of the Trinity River, connecting the two downtown deep tunnel sewers with the two West Fork trunk sewers near 1st Street, north of Gateway Park. This

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project will improve wastewater conveyance capacity to an area identified in the Wastewater Master Plan as needing additional capacity to convey future peak wastewater flows.

- **Main 513 Parallel Interceptor in the Clear Fork Basin:** This project will install a parallel relief sewer interceptor through the City of Benbrook designed to provide increased capacity for future growth west of the Highway 377 corridor, including such developments as Ventana, Bella Flora, Veal Ranch and Walsh Ranch. Design and construction will be coordinated with the City of Benbrook and the Benbrook Water Authority.
- **Crowley Parallel Line in the Village Creek Basin:** This project will extend a parallel relief sewer through the City of Crowley to the west city limit boundary, where Fort Worth developments such as Tarleton/Rock GLO will make connections. This project also consists of two new wholesale meter stations as well as the permanent abandonment of two existing sanitary sewer lift stations (Carried over from FY2017.)

proposed revitalization area. All CFAs with City participation above \$100,000 require separate City Council approval. Annexation projects will provide service to previously annexed areas that have met required criteria and petitioned the City for utility services. The total estimated spend over the next five years is \$30 million.

Community Facilities Agreements

Community Facilities Agreements (CFAs) fund partnership opportunities with new development providers to invest in oversizing the water and sewer infrastructure from the size required to serve a proposed development to the size required by the Water and/or Wastewater Master Plan to provide regional service for future growth in the area. These CFAs also fund partnership opportunities with redevelopment providers to rehabilitate and replace existing deteriorated infrastructure that will enhance the service level of the area surrounding the

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Program Summary: Community Facilities Agreements

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Annexation Program - Water and Sewer	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,000,000
Community Facility Agreement Program	\$ 8,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 28,000,000
Total	\$ 8,000,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 30,000,000
Funding Sources						
Revenue Bonds	\$ 5,000,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 27,000,000
Legacy Water/Sewer Capital Fund	\$ 3,000,000	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000
Total Sources	\$ 8,000,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 30,000,000

Rehabilitation and Replacement

Projects that address water mains smaller than 16 inches in diameter or sewer mains smaller than 24 inches in diameter are outlined in the table below.

This funding also addresses impact fee studies and begins the process of replacing all public side lead services from the water system. The total estimated spend over the next five years is \$79.3 million.

Program Summary: Rehabilitation and Replacement

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Miscellaneous Water and Sewer Line Contracts	\$ 15,150,000	\$ 15,150,000	\$ 15,150,000	\$ 16,750,000	\$ 16,750,000	\$ 78,950,000
Water/Wastewater Impact Fee Study	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000
Total	\$ 15,150,000	\$ 15,450,000	\$ 15,150,000	\$ 16,750,000	\$ 16,750,000	\$ 79,250,000
Funding Sources						
Sewer Impact Fees	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000
Water Impact Fees	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000
Cash	\$ 15,150,000	\$ 15,150,000	\$ 15,150,000	\$ 16,750,000	\$ 16,750,000	\$ 78,950,000
Total Sources	\$ 15,150,000	\$ 15,450,000	\$ 15,150,000	\$ 16,750,000	\$ 16,750,000	\$ 79,250,000

FY2018 Project Descriptions:

- **Miscellaneous Water and Sewer Line Contracts:** These contracts fund a series of projects that provide small water and sewer extensions, replacements or relocations, along with sewer rehabilitation using trenchless

technology. These projects are task order projects used by Utility staff to extend/relocate/replace/rehabilitate water or sewer lines on a task order basis and have been used for emergency work when needed. Other City departments may use this contract for small projects upon payment to the Utility.

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Water

Street Maintenance

Outlined in the table below is funding for the replacement of water and sewer lines that are old and/or have a high maintenance record in streets that are scheduled for reconstruction. Some of these

projects are included in the City-wide street bond programs or other street maintenance programs. The total estimated spend over the next five years is \$148.5 million.

Program Summary: Street Maintenance

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Water and Sewer Program - Streets	\$ 27,241,925	\$ 28,688,736	\$ 31,265,168	\$ 36,556,431	\$ 24,733,697	\$ 148,485,957
Total	\$ 27,241,925	\$ 28,688,736	\$ 31,265,168	\$ 36,556,431	\$ 24,733,697	\$ 148,485,957
Funding Sources						
Legacy Water/Sewer Capital Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cash	\$ 27,241,925	\$ 28,688,736	\$ 31,265,168	\$ 36,556,431	\$ 24,733,697	\$ 148,485,957
Total Sources	\$ 27,241,925	\$ 28,688,736	\$ 31,265,168	\$ 36,556,431	\$ 24,733,697	\$ 148,485,957

Sanitary Sewer Overflow Program

Projects to eliminate sanitary sewer overflows as required to comply with federal and state regulations are outlined in the table below. This funding allows for the replacement, rerouting or rehabilitation of sewer mains that have been

identified as needing replacement through one of three methods: by the ongoing sewer Interceptor Condition Assessment Program; by their history of repeated breaks; or upon recommendation by the Field Operations Division staff based on age and pipe materials. The total estimated spend over the next five years is \$62.5 million.

Program Summary: Sanitary Sewer Overflow Initiative Program

	FY2018	FY2019	FY2020	FY2021	FY2022	Total 5-Year CIP
Projects						
Sanitary Sewer Overflow Initiative	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 10,000,000	\$ 50,000,000
ICAP High Priority Pipeline Replacements/Upgrades	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 12,500,000
Total	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 62,500,000
Funding Sources						
Cash	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 62,500,000
Total Sources	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 62,500,000

PAST ACCOMPLISHMENTS

Over the last five years, the Utility has appropriated \$113 million on average per year for capital projects in support of system operations. Past projects were driven by the need to accommodate growth,

rehabilitate and replace existing aging infrastructure, establish operational efficiencies, and facilitate partnerships with outside entities.

The significant projects for which funds were appropriated in FY2013-2017 include:

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- **Main 257 Village Creek Basin Parallel Relief Sewer:** Part 1 of this project is for approximately two miles of 42-inch to 60-inch diameter parallel relief sewer main to be installed in the Village Creek sewer basin. Construction of this project will occur in three phases, with the first phase bid in July 2017 and the remaining two construction packages scheduled to advertise in FY 18. In addition to the engineering work, negotiations with both Bureson and Crowley are ongoing related to cost participation in the capacity of this parallel relief sewer line.
- **Love Circle Water and Sewer:** The recent construction of the Casino Beach Lift Station allows for gravity and low pressure sewer lines to be extended to areas along the north shore of Lake Worth. As part of this project, low pressure sewer lines are being extended to properties along Love Circle. Grinder pumps are also being installed to connect properties to the low pressure sewer. Because installation of the low pressure sewer and grinder pumps must be accompanied by re-plumbing and permanent abandonment of the lot septic tank, extensive coordination with the customer is required.
- **Village Creek - Grit System and Flow Consolidation:** Design was initiated in 2017 for a project to remove fine grit from the wastewater stream. In the past, grit has proved to be a maintenance problem at the Village Creek Plant, requiring frequent cleaning of digesters and basins, as well as premature wear of mechanical equipment. The grit removal project should decrease maintenance expense associated with grit removal and allow more efficient operation of the anaerobic digesters. Construction will begin in FY2018.

- **Village Creek - Thickener Improvements:** This project will improve thickening of primary and waste activated sludge prior to conveyance to the anaerobic digesters. This improvement allows more efficient use of the existing digester volume, delays the need for digester capacity expansion and provides a higher percent solids sludge to the dewatering facility for processing. Design was initiated on this project in FY2017.

LOOKING TO THE FUTURE

The Water and Wastewater Master Plans identify needs 20 years into the future and include a recommended list of CIP projects for that planning horizon. Because water distribution system, wastewater collection system, and treatment plant expansion projects are directly related to growth, which can be unpredictable, the Master Plans focus on needs during the first ten years. To improve accuracy, the Master Plans are updated every ten years - or earlier if the Master Plan growth assumptions have changed significantly.

Significant projects currently included in the Utility's Water and Wastewater Master Plans beyond the current 5-year Capital Plan are:

- **Eagle Mountain Water Treatment Plant Expansion:** This project will expand the plant from 105 MGD capacity to 140 MGD. Design is currently scheduled to begin in FY2021, with construction commencing beyond the five year window.
- **Rolling Hills Water Treatment Plant Expansion:** This project will expand the plant from 200 MGD capacity to 250 MGD. Design and

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construction are currently scheduled beyond the five year window.

- **Westside Water Treatment Plant Phased Expansion:** This series of projects will expand the plant from 18 MGD capacity to 35 MGD, in 3 MGD increments, beyond the five year window.
- **Village Creek Water Reclamation Facility Expansion:** This project will expand the plant from 166 MGD rated capacity to 191 MGD rated capacity and will include new processes for nutrient removal and enhanced disinfection. Design and construction are currently scheduled beyond the five year window.
- **Mary's Creek Water Reclamation Facility:** This project will construct the new water reclamation facility on the west side of Fort Worth. Design is currently scheduled to begin in FY2019, with construction commencing beyond the five year window.

5-year Capital Improvement Plan

Fiscal Years 2018-2022

EXHIBITS

- FY2018-2022 Water and Wastewater 5-year CIP
- FY2018 Vehicle and Equipment Plan

FY2018-2022 Water and Wastewater 5-Year Capital Improvement Plan

Funding Source	Category	Project	2018	2019	2020	2021	2022	5 Year Total
Revenue Bonds	Community Facilities Agreement:Annexation Program- Water and Sewer			\$ 500,000.00	\$ 500,000.00	\$ 500,000.00	\$ 500,000.00	\$ 2,000,000
Revenue Bonds	Community Facilities Agreement:Community Facility Agreements Program		\$ 5,000,000.00	\$ 5,000,000.00	\$ 5,000,000.00	\$ 5,000,000.00	\$ 5,000,000.00	\$ 25,000,000
Legacy Water/Sewer Capital Fund	Community Facilities Agreement:Community Facility Agreements Program		\$ 3,000,000.00					\$ 3,000,000
		Total Community Facility Agreements	\$ 8,000,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 5,500,000	\$ 30,000,000
Revenue Bonds	Major Transmission Mains	Cultural District - Water Line Replacement	\$468,000	\$8,806,000	\$168,000	\$7,876,000		\$ 17,318,000
Revenue Bonds	Major Transmission Mains	Major Transmission Mains Other Improvements	\$3,570,000	\$1,200,000	\$4,360,000	\$1,100,000	\$8,225,000	\$ 18,455,000
Cash	Major Transmission Mains	Major Transmission Mains Other Improvements					\$950,000	\$ 950,000
Cash	Major Transmission Mains	16" Transfer WSI to WSI Pressure Plane					\$4,150,000	\$ 4,150,000
Revenue Bonds	Major Transmission Mains	16" Transfer WSI to WSI Pressure Plane				\$408,672		\$ 408,672
Revenue Bonds	Major Transmission Mains	Southeast Water Main Connections		\$2,800,000				\$ 2,800,000
Revenue Bonds	Major Transmission Mains	54" NSII Water Line - EMWTP to Hicks Field			\$733,000		\$3,778,444	\$ 4,511,444
Revenue Bonds	Major Transmission Mains	24" Holly Water Main - Churchill Road		\$2,559,600				\$ 2,559,600
Revenue Bonds	Major Transmission Mains	Southside Water Maint to Serve Burleson and Crowley		\$1,482,585	\$13,343,263			\$ 14,825,848
Revenue Bonds	Major Transmission Mains	FM156 Water and Sewer Relocations	\$4,821,000					\$ 4,821,000
Legacy Water/Sewer Capital Fund	Major Transmission Mains	30" NSII Water Main - Northeast Extension	\$4,049,554					\$ 4,049,554
Revenue Bonds	Major Transmission Mains	Water Line Replace - Southside Medical District	\$4,900,000					\$ 4,900,000
Cash	Major Transmission Mains	Water Line Replace - Southside Medical District		\$4,530,000	\$3,700,000			\$ 8,230,000
		Total Major Transmission Mains	\$ 17,808,554	\$ 21,378,185	\$ 22,304,263	\$ 9,384,672	\$ 17,103,444	\$ 87,979,118
TWDB State Revolving Loan Fund	Major Wastewater Collectors	Main 210 Colonial Area Sewer Improvements	\$2,500,000					\$ 2,500,000
Legacy Water/Sewer Capital Fund	Major Wastewater Collectors	Main 210 Colonial Area Sewer Improvements	\$250,000					\$ 250,000
Revenue Bonds	Major Wastewater Collectors	Main 325 Village Creek Basin Parallel Relief Sewer	\$9,000,000					\$ 9,000,000
Revenue Bonds	Major Wastewater Collectors	Main 257 Village Creek Basin Parallel Relief Sewer	\$21,000,000					\$ 21,000,000
Cash	Major Wastewater Collectors	Sewer Extension - Sandy Lane/Trice Court		\$300,000	\$1,300,000			\$ 1,600,000
Revenue Bonds	Major Wastewater Collectors	Chisholm Trail Parkway Main 311 Abandonment and Lift Station	\$600,000					\$ 600,000
Revenue Bonds	Major Wastewater Collectors	Main 402 Big Fossil Parallel Relief Sewer		\$11,000,000	\$1,200,000		\$10,000,000	\$ 22,200,000
Revenue Bonds	Major Wastewater Collectors	Main 347/386 Upper Big Fossil Parallel Relief Sewer	\$6,500,000					\$ 6,500,000
TWDB State Revolving Loan Fund	Major Wastewater Collectors	Main 280/338 West Fork Rehabilitation		\$7,500,000				\$ 7,500,000
Legacy Water/Sewer Capital Fund	Major Wastewater Collectors	Main 280/338 West Fork Rehabilitation		\$750,000				\$ 750,000
Sewer Impact Fees	Major Wastewater Collectors	Wastewater Master Plan Update				\$3,000,000		\$ 3,000,000
Revenue Bonds	Major Wastewater Collectors	Little Fossil Creek Interceptor Improvements	\$2,150,000	\$4,000,000				\$ 6,150,000
Legacy Water/Sewer Capital Fund	Major Wastewater Collectors	Main 503 Village Creek Sewer Main Rehabilitation	\$1,200,000					\$ 1,200,000
TWDB State Revolving Loan Fund	Major Wastewater Collectors	Main 503 Village Creek Sewer Main Rehabilitation	\$4,327,189					\$ 4,327,189
Revenue Bonds	Major Wastewater Collectors	Main 275 Sycamore Creek Basin Parallel Relief Sewer	\$4,650,000	\$7,240,000	\$1,200,000		\$9,462,470	\$ 22,552,470
Revenue Bonds	Major Wastewater Collectors	Major Wastewater Collectors Other Improvements				\$1,850,000	\$7,968,480	\$ 9,818,480
Cash	Major Wastewater Collectors	Major Wastewater Collectors Other Improvements					\$1,600,000	\$ 1,600,000
Revenue Bonds	Major Wastewater Collectors	Cultural District - Sewer Line Replacement	\$520,000					\$ 520,000
Revenue Bonds	Major Wastewater Collectors	Eagle Mountain to Big Fossil Diversion	\$7,000,000					\$ 7,000,000
Revenue Bonds	Major Wastewater Collectors	Upper Clear Fork Interceptor Improvements	\$2,500,000					\$ 2,500,000
Revenue Bonds	Major Wastewater Collectors	Walsh Ranch Sewer Extension	\$3,500,000					\$ 3,500,000
Revenue Bonds	Major Wastewater Collectors	Main 34, 100 and D100 Downtown Central District Sewer Replacements		\$2,630,000				\$ 2,630,000
Revenue Bonds	Major Wastewater Collectors	Main 365 Marine Creek basin Parallel Relief Sewer	\$2,000,000	\$2,000,000	\$3,000,000			\$ 7,000,000
Revenue Bonds	Major Wastewater Collectors	Main 615 Clear Fork Basin Replacement Interceptor			\$1,500,000	\$6,500,000	\$500,000	\$ 8,500,000
Revenue Bonds	Major Wastewater Collectors	Main 295 Village Creek Basin Replacement Sewer			\$900,000	\$3,000,000	\$3,000,000	\$ 6,900,000
Revenue Bonds	Major Wastewater Collectors	Main 199 West Fork Basin Parallel Relief Sewer Line	\$600,000		\$4,000,000			\$ 4,600,000
Revenue Bonds	Major Wastewater Collectors	Main 245 Parallel Interceptor	\$1,500,000	\$1,000,000	\$12,000,000			\$ 14,500,000
Revenue Bonds	Major Wastewater Collectors	Main 513 Parallel Interceptor in the Clear Fork Basin	\$500,000		\$3,000,000	\$400,000	\$3,000,000	\$ 6,900,000
Revenue Bonds	Major Wastewater Collectors	Crowley Parallel Line in the Village Creek Basin	\$12,750,000					\$ 12,750,000
Cash	Major Wastewater Collectors	Parallel 30" Interceptor in the Clear Fork Basin					\$4,657,730	\$ 4,657,730
Revenue Bonds	Major Wastewater Collectors	Parallel 30" Interceptor in the Clear Fork Basin				\$600,000		\$ 600,000
Cash	Major Wastewater Collectors	New Interceptor in the Clear Fork Basin					\$3,908,713	\$ 3,908,713
Revenue Bonds	Major Wastewater Collectors	New Interceptor in the Clear Fork Basin				\$800,000		\$ 800,000
		Total Major Wastewater Collectors	\$ 83,047,189	\$ 36,420,000	\$ 28,100,000	\$ 16,150,000	\$ 44,097,393	\$ 207,814,582

City of Fort Worth

5-year Capital Improvement Plan

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Water

Water and Wastewater 5-year Capital Improvement Plan FY2018-2022 – Continued

Funding Source	Category	Project	2018	2019	2020	2021	2022	5 Year Total
Revenue Bonds	Miscellaneous Facilities	Main 272 Replacement Clear Fork Sewer	\$2,000,000	\$1,000,000	\$16,000,000			\$ 19,000,000
Sewer Impact Fees	Miscellaneous Facilities	Bonds Ranch Lift Stations			\$600,000			\$ 600,000
Revenue Bonds	Miscellaneous Facilities	Denton Creek Lift Station					\$300,000	\$ 300,000
Revenue Bonds	Miscellaneous Facilities	Live Oak Regional Lift Station and Force Main					\$400,000	\$ 400,000
Revenue Bonds	Miscellaneous Facilities	Lake Arlington Lift Station and Force Main	\$3,000,000	\$5,000,000	\$15,000,000			\$ 23,000,000
Sewer Impact Fees	Miscellaneous Facilities	Walsh Ranch Lift Station and Force Mains Phase IVB			\$200,000			\$ 200,000
Cash	Miscellaneous Facilities	Walsh Ranch Lift Station and Force Mains Phase IVB				\$1,288,000		\$ 1,288,000
TWDB SWIRFT	Miscellaneous Facilities	My H2O/Advanced Metering Infrastructure (AMI)	\$63,000,000					\$ 63,000,000
Gas Well Revenues	Miscellaneous Facilities	Lake Worth Dredging	\$400,000					\$ 400,000
Gas Well Revenues	Miscellaneous Facilities	Lake Worth Hike/Bike Trail System		600000	900000	5100000		\$ 12,000,000
Gas Well Revenues	Miscellaneous Facilities	Lake Worth Watercress Low Pressure Sewer System	\$400,000	\$3,100,000				\$ 3,500,000
Gas Well Revenues	Miscellaneous Facilities	Love Circle Park Improvements	\$200,000					\$ 200,000
Cash	Miscellaneous Facilities	Lakeside Settlement Agreement Utility Extension	\$3,000,000					\$ 3,000,000
Legacy Water/Sewer Capital Fund	Miscellaneous Facilities	Lakeside Settlement Agreement Utility Extension				2000000		\$ 2,000,000
Cash	Miscellaneous Facilities	Lake Worth Dam Rehabilitation	200000					\$ 200,000
Revenue Bonds	Miscellaneous Facilities	Jenkins Heights Lift Station and Force Mains		\$2,200,000				\$ 2,200,000
Revenue Bonds	Miscellaneous Facilities	Westside Tanks	\$6,000,000		\$1,650,000	\$12,000,000		\$ 19,650,000
Revenue Bonds	Miscellaneous Facilities	Westside Pump Station				\$464,000	\$5,242,296	\$ 5,706,296
Revenue Bonds	Miscellaneous Facilities	Northside Pump Station Expansion		\$200,000		\$1,000,000		\$ 1,200,000
Revenue Bonds	Miscellaneous Facilities	Calmont Tank Rehab	\$1,000,000					\$ 1,000,000
Revenue Bonds	Miscellaneous Facilities	Seminary Hills & Willow Springs Tank Rehab	\$1,720,000					\$ 1,720,000
Revenue Bonds	Miscellaneous Facilities	Iron Horse Meter Station					\$800,000	\$ 800,000
		Total Miscellaneous Facilities	\$ 80,920,000	\$ 17,500,000	\$ 34,350,000	\$ 21,852,000	\$ 6,742,296	\$ 161,364,296
Cash	Rehabilitation and Replacement	Miscellaneous Water and Sewer Line Contracts	\$15,150,000	\$15,150,000	\$15,150,000	\$16,750,000	\$16,750,000	\$ 78,950,000
Sewer Impact Fees	Rehabilitation and Replacement	Water/Wastewater Impact Fee Study	\$150,000	\$150,000				\$ 150,000
Water Impact Fees	Rehabilitation and Replacement	Water/Wastewater Impact Fee Study	\$150,000	\$150,000				\$ 150,000
		Total Rehabilitation and Replacement	\$ 15,150,000	\$ 15,450,000	\$ 15,150,000	\$ 16,750,000	\$ 16,750,000	\$ 79,250,000
Cash	Sanitary Sewer Overflow Program	Sanitary Sewer Overflow Initiative	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$ 50,000,000
Cash	Sanitary Sewer Overflow Program	ICAP High Priority Pipeline Replacements/Upgrades	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$ 12,500,000
		Total Sanitary Sewer Overflow Program	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 12,500,000	\$ 62,500,000
Cash	Street Maintenance	Water and Sewer Program Streets	\$27,241,925	\$28,688,736	\$31,265,168	\$36,556,431	\$24,733,697	\$ 148,485,957
		Total Street Maintenance	\$ 27,241,925	\$ 28,688,736	\$ 31,265,168	\$ 36,556,431	\$ 24,733,697	\$ 148,485,957
Revenue Bonds	Trinity River Vision & IH35	Trinity River Vision Program - Water and Sewer	\$7,067,300	\$26,939,000	\$19,681,000	\$1,889,000	\$11,524,693	\$ 67,100,993
Revenue Bonds	Trinity River Vision & IH35	IH35 Expansion - Water and Sewer	\$2,900,000	\$400,000	\$400,000			\$ 3,700,000
		Total Trinity River Vision & IH35	\$ 9,967,300	\$ 27,339,000	\$ 20,081,000	\$ 1,889,000	\$ 11,524,693	\$ 70,800,993
Gas Well Revenues	Water Reclamation Facilities	Village Creek - Chlorine Conversion & Enclosure Project	\$3,250,000					\$ 3,250,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - Bar Screen Bldg #3 Modification		\$500,000	\$500,000			\$ 1,000,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - Grit System Flow Consolidation	\$300,000	\$17,100,000				\$ 17,400,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - Primary Clarifiers			\$3,000,000		\$16,000,000	\$ 19,000,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - Bio-Solid Master Plan Implementation	\$8,000,000	\$2,500,000		\$42,500,000		\$ 53,000,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - Disinfection Alternatives				\$1,500,000		\$ 1,500,000
Sewer Impact Fees	Water Reclamation Facilities	Mary's Creek - Water Reclamation Facility		\$1,500,000		\$4,500,000		\$ 6,000,000
Revenue Bonds	Water Reclamation Facilities	Village Creek Minor Improvements Bucket	\$1,630,000		\$230,000	\$330,000	\$4,100,000	\$ 6,290,000
Gas Well Revenues	Water Reclamation Facilities	Village Creek - Energy Efficiency and Performance Improvements	\$500,000	\$4,000,000				\$ 4,500,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - MCC Replacement	\$7,500,000	\$7,500,000	\$7,000,000			\$ 22,000,000
Cash	Water Reclamation Facilities	Village Creek - Administrative Complex Foundation Rehab			\$200,000			\$ 200,000
Revenue Bonds	Water Reclamation Facilities	Village Creek - Thickener Improvements		\$14,800,000				\$ 14,800,000
Sewer Impact Fees	Water Reclamation Facilities	Village Creek - Facilities Plan		\$1,000,000				\$ 1,000,000
		Total Water Reclamation Facilities	\$ 21,180,000	\$ 48,900,000	\$ 10,930,000	\$ 48,830,000	\$ 20,100,000	\$ 149,940,000
Revenue Bonds	Water Treatment Plants	North Holly Water Treatment Plant Sludge Collection System	\$750,000	\$3,000,000				\$ 3,750,000
Revenue Bonds	Water Treatment Plants	Zebra Mussel Raw Water Chlorination Station			\$250,000			\$ 250,000
Water Impact Fees	Water Treatment Plants	Westside Water Treatment Plant Expansion		\$400,000	\$500,000			\$ 900,000
Revenue Bonds	Water Treatment Plants	South Holly Flocculator Improvements		\$600,000	\$4,500,000			\$ 5,100,000
Revenue Bonds	Water Treatment Plants	Eagle Mountain Water Treatment Plant Expansion				\$5,000,000		\$ 5,000,000
		Total Water Treatment Plants	\$ 750,000	\$ 4,000,000	\$ 5,250,000	\$ 5,000,000	\$ -	\$ 15,000,000
		Total FY2018-2022 CIP	\$ 276,564,968	\$ 217,675,921	\$ 185,430,431	\$ 174,412,103	\$ 159,051,523	\$ 1,013,134,946

FY18-22 Capital Projects by Funding Source	2018	2019	2020	2021	2022	5 Year Total
Revenue Bonds	\$ 135,396,300	\$ 131,957,185	\$ 119,115,263	\$ 92,717,672	\$ 89,801,383	\$ 568,987,803
Gas Well Revenues	\$ 4,750,000	\$ 13,100,000	\$ 900,000	\$ 5,100,000	\$ -	\$ 23,850,000
Cash	\$ 58,091,925	\$ 61,168,736	\$ 64,115,168	\$ 67,094,431	\$ 69,250,140	\$ 319,720,400
Sewer Impact Fees	\$ -	\$ 2,650,000	\$ 800,000	\$ 7,500,000	\$ -	\$ 10,950,000
Water Impact Fees	\$ -	\$ 550,000	\$ 500,000	\$ -	\$ -	\$ 1,050,000
TWDB State Revolving Loan Fund	\$ 6,827,189	\$ 7,500,000	\$ -	\$ -	\$ -	\$ 14,327,189
TWDB SWIRFT	\$ 63,000,000	\$ -	\$ -	\$ -	\$ -	\$ 63,000,000
Legacy Water/Sewer Capital Fund	\$ 8,499,554	\$ 750,000	\$ -	\$ 2,000,000	\$ -	\$ 11,249,554
Total FY2018-2022 CIP by Funding Source	\$ 276,564,968	\$ 217,675,921	\$ 185,430,431	\$ 174,412,103	\$ 159,051,523	\$ 1,013,134,946

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Water

FY2018 VEHICLE AND EQUIPMENT PLAN
WATER

No. of Items	Item Description	Department ID (Center)	Amount Budgeted
0601005: Safety & Security			
1	Kubota 2 Seater, Enclosed Cab w/ Removable Doors	0601005	\$19,000
1	1/2 Ton PU 2WD Ext Cab Ladder & Headache Rack Tool Boxes Liftgate	0601005	\$30,000
	Subtotal for 0601005		\$49,000
0602501: Engineering			
1	1/2 ton PU Crew Cab 4WD	0602501	\$29,000
	Subtotal for 0602501		\$29,000
0603001: Laboratory			
1	1/2 Ton PU 4WD Ext Cab LED Lightbar, AVL	0603001	\$35,000
	Subtotal for 0603001		\$35,000
0604009: Meter Services			
1	Mid-Size PU 4WD 3.6L Eng Crew Cab Side Mounted Tool Boxes Bed Liner LED Lightbar (Toyota Tacoma)	0604009	\$33,000
1	Mid-Size PU 4WD 3.6L Eng Crew Cab Side Mounted Tool Boxes Bed Liner LED Lightbar (Toyota Tacoma)	0604009	\$33,000
1	Mid-Size PU 4WD 3.6L Eng Crew Cab Side Mounted Tool Boxes Bed Liner LED Lightbar (Toyota Tacoma)	0604009	\$33,000
1	Mid-Size PU 4WD 3.6L Eng Crew Cab Side Mounted Tool Boxes Bed Liner LED Lightbar (Toyota Tacoma)	0604009	\$33,000
1	Mid-Size PU 4WD 3.6L Eng Crew Cab Side Mounted Tool Boxes Bed Liner LED Lightbar (Toyota Tacoma)	0604009	\$33,000
1	SUV Mid-Size	0604009	\$33,000
	Subtotal for 0604009		\$198,000
0605002: N. and S. Holly Water Treatment Plants			
1	Nitrogen Compressor for the N. Holly Ozone System	0605002	\$75,000
2	Ross Valve Rebuild Kits for N. Holly High Service Pump #2 & #8	0605002	\$12,000
1	Low Concentration Ozone Meter for Holly	0605002	\$6,000
	Subtotal for 0605002		\$93,000
0605003: Rolling Hills Water Treatment Plant			
1	Chlorine/Ammonia Leak Detection System	0605003	\$30,000
1	93T Portable Flow Meter	0605003	\$11,000
1	70-Ton Chiller for the R. Hills Admin. Bldg.	0605003	\$50,000
2	Chiller Pumps	0605003	\$14,000
1	3/4 ton Service Truck Crew Cab 4WD AVL	0605003	\$45,000
	Subtotal for 0605003		\$150,000
0605004: Distribution Systems			
1	Grantry for Interior of Russom Ranch Pump Station	0605004	\$11,000
1	Bar Screen Pump for Clearfork Pump Station	0605004	\$12,500
1	Fluke ProCal-V Documentation Software & Asset Management	0605004	\$28,000
1	Valve Operator for Alta Mesa Pump Station Fill Valve	0605004	\$7,500
1	Valve Operator for Northside Pump Station Fill Valve	0605004	\$8,500
	Subtotal for 0605004		\$67,500

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Water

FY2018 VEHICLE AND EQUIPMENT PLAN
WATER

0605011: Eagle Mountain Water Treatment Plant			
14	Filter Valve Actuators for replacement in Phase I at Eagle Mtn.	0605011	\$120,000
1	Chiller for Eagle Mtn. Raw Water Pump Station #1	0605011	\$50,000
4	Sodium Hydroxide Recirculating Pumps for replacment in Phase I &	0605011	\$40,000
5	Ozone Percent Weight Monitors for the Inlet to the Ozone Destruct	0605011	\$35,000
3	Chorine Sage Meters for the Chlorine System at Eagle Mtn.	0605011	\$30,000
2	Worm Gear Operators for Valmatic BFV at Eagle Mtn.	0605011	\$20,000
1	3/4 ton Service Truck Crew Cab 4WD AVL	0605011	\$45,000
Subtotal for 0605011			\$340,000
0605012: Water Customer City Meters			
8	16" Mag Meters for installation at 8 Wholesale Customer Cities Sites	0605012	\$48,720
Subtotal for 0605012			\$48,720
0605500: Pretreatment			
1	Mid-Size PU 2.5L Eng Ext Cab LED Lightbar AVL	0605500	\$28,000
1	Mid-Size PU 2.5L Eng Ext Cab LED Lightbar AVL	0605500	\$28,000
Subtotal for 0605500			\$56,000
0607002: Field Operations/Water Fire Flow & Line Location			
1	1/2 ton PU Crew Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box Bucket Seat Center Console	0607002	\$37,000
1	1/2 ton PU Crew Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box Bucket Seat Center Console	0607002	\$37,000
1	1/2 ton PU Crew Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box Bucket Seat Center Console	0607002	\$37,000
Subtotal for 0607002			\$111,000
0607004: Field Operations/Valves and Fire Hydrants			
1	1/2 ton PU Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box	0607004	\$36,000
1	Service Trk Air Compressor Crane Backhoe	0607004	\$175,000
Subtotal for 0607004			\$211,000
0607005: Field Operations/Water Taps & Services			
1	Service Trk w/ Aux Power Unit (Air/Generator/Hydraulic)	0607005	\$135,000
1	Dump Truck Tandem Axle (Peterbilt 348)	0607005	\$155,000
1	Tractor Loader Backhoe w/ Bayonet Breaker	0607005	\$130,000
1	Tractor Loader Backhoe w/ Bayonet Breaker	0607005	\$130,000
Subtotal for 0607005			\$550,000
0607006: Field Operations/Water Investigation			
1	1/2 ton PU Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box	0607006	\$36,000
Subtotal for 0607006			\$36,000

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Water

FY2018 VEHICLE AND EQUIPMENT PLAN
WATER

0607007: Field Operations/Water Mains			
1	1/2 ton PU Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box	0607007	\$36,000
1	Service Trk w/ Aux Power Unit (Air/Generator/Hydraulic)	0607007	\$135,000
1	Dump Truck Tandem Axle (Peterbilt 348)	0607007	\$155,000
1	Trailer Equipment 40k GVWR	0607007	\$26,000
1	Trailer Equipment 40k GVWR	0607007	\$26,000
1	Trailer Equipment 40k GVWR	0607007	\$26,000
1	Tractor Loader Backhoe w/ Bayonet Breaker	0607007	\$130,000
1	Tractor Loader Backhoe w/ Bayonet Breaker	0607007	\$130,000
Subtotal for 0607007			\$664,000
0607010: Field Operations/Water Night Supervisors			
1	1/2 ton PU Ext Cab 4WD rearview camera Nerf Bars, Blue tooth Tool Box	0607010	\$36,000
Subtotal for 0607010			\$36,000
0607011: Field Operations/Street Repair			
1	Flat Bed Crew Cab 16-19k GVWR 250-400 gallon water tank, aux water pump 1000' water hose with reel side mounted tool boxes Liftgate (Capacity 2,000+ lbs) 2 secured mounting saddles for concrete saw, saw blade storage box	0607011	\$90,000
1	Dump Truck Tandem Axle w/ Emulsification Unit (Peterbilt 348)	0607011	\$175,000
1	Dump Truck Tandem Axle (Peterbilt 348)	0607011	\$155,000
1	1/2 ton PU Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box	0607011	\$35,500
1	1/2 ton PU Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth LED Lightbar Tool Box	0607011	\$35,500
Subtotal for 0607011			\$491,000
Total Water			\$3,165,220

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Water

FY2018 VEHICLE AND EQUIPMENT PLAN
SEWER

No. of Items	Item Description	Department ID (Center)	Amount Budgeted
0701005: Engineering/Safety & Security			
1	Kubota 2 Seater, Enclosed Cab w/ Removable Doors	0701005	\$19,000
1	1/2 ton PU Crew Cab 4WD Short Bed	0701005	\$55,000
	Subtotal for 0701005		\$74,000
0702501: Engineering			
1	SUV Full Size 4WD	0702501	\$40,000
	Subtotal for 0702501		\$40,000
0703001: Laboratory			
1	UP Water Unit	0703001	\$8,000
1	O&G Extractor - Oil and Grease Extractors	0703001	\$35,000
1	BOD Analyzer - Biochemical Oxygen Demand Analysis	0703001	\$80,000
1	N2 Gas Generator	0703001	\$22,000
1	O&G Concentrator - Oil and Grease Analysis	0703001	\$10,000
	Subtotal for 0703001		\$155,000
0705005: Sewer Operations			
1	Mid-Size PU	0705005	\$26,000
1	Mid-Size PU	0705005	\$26,000
1	Mid-Size PU	0705005	\$26,000
	Subtotal for 0705005		\$78,000
0705006: Village Creek Maintenance			
1	New Turntable & Drive Unit and Column Equalization Basin	0705006	\$150,000
5	New Waste Sludge Pumps and Motors	0705006	\$170,000
2	Macho Monster Grinders	0705006	\$64,000
1	Low-Nox Burner for the Big Boiler	0705006	\$90,000
1	New Dehydrator	0705006	\$50,000
1	Mid-Size PU	0705006	\$26,000
1	Mid-Size PU	0705006	\$26,000
	Subtotal for 0705006		\$576,000
0705007: Technical Services			
1	Real Time Phosphorus Analyzer	0705007	\$22,000
	Subtotal for 0705007		\$22,000
0705009: Instrumentation & Electrical			
2	Medium Voltage Pad Mounted Switches	0705009	\$110,000
1	Various Motor Replacements plantwide	0705009	\$100,000
1	Various Valve Acuator Replacements plantwide	0705009	\$50,000
1	Mid-Size Pickup Tool Box (Ford Ranger)	0705009	\$26,500
1	Mid-Size Pickup Tool Box (Ford Ranger)	0705009	\$26,500
1	Mid-Size Pickup Tool Box (Ford Ranger)	0705009	\$26,500
	Subtotal for 0705009		\$339,500

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Water

FY2018 VEHICLE AND EQUIPMENT PLAN
SEWER

0705500: Sewer Pretreatment			
1	3/4 ton PU LED Lightbar AVL Body Insert similar to #203-0286 or #203-0287)	0705500	\$50,000
1	7-9 Passenger Van AVL	0705500	\$32,000
Subtotal for 0705500			\$82,000
0707002: Fire Flow and Line Location			
8	1/2 ton PU Ext cab 4WD Rearview Camera Nerf Bars Blue Tooth Laptop Mount Bucket Seats	0707002	\$36,000
Subtotal for 0707002			\$36,000
0707003: Warehouse			
1	Full Size SUV Chevy Suburban 4WD	0707003	\$45,000
Subtotal for 0707003			\$45,000
0707006: Sewer Maintenance			
1	Service Truck Crew Cab Air Compressor (Peterbilt Cab & Chassis)	0707006	\$145,000
1	Service Truck Crew Cab Air Compressor (Peterbilt Cab & Chassis)	0707006	\$145,000
1	Dump truck Tandem Axle (Peterbilt Cab & Chassis)	0707006	\$155,000
Subtotal for 0707006			\$445,000
0707007: Sewer Technical Services			
1	1 ton PU Crew Cab 4WD Short Bed	0707007	\$45,000
1	1/2 ton PU Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth Laptop Mount Bucket Seats	0707007	\$36,000
1	Service Truck 19k GVWR Aux Power Unit (Vanair) 100 Gallon Fuel Transfer Tank	0707007	\$80,000
Subtotal for 0707007			\$161,000
0707008: Sewer FO Utility Cut Repair			
1	Dump Truck Tandem Axle	0707008	\$155,000
1	Flatbed Truck with 10 ton Crane	0707008	\$275,000
Subtotal for 0705008			\$430,000
0707010: Sewer Taps & Services			
1	Service Truck Crew Cab Air Compressor (Peterbilt Cab & Chassis)	0707010	\$145,000
1	Service Truck Crew Cab Air Compressor (Peterbilt Cab & Chassis)	0707010	\$145,000
1	Trailer Tilt Bed 26' 16k GVWR	0707010	\$12,500
1	Compact Track Loader 80" Bucket Grapple Bucket Brush Cutter Attachments (Case TR340)	0707010	\$90,000
Subtotal for 0705010			\$392,500

City of Fort Worth
5-year Capital Improvement Plan
Fiscal Years 2018-2022

Water

FY2018 VEHICLE AND EQUIPMENT PLAN
SEWER

0707012: Sewer Investigations			
1	Service Truck 19k GVWR Aux Power Unit (Vanair) 100 Gallon Fuel Transfer Tank	0707012	\$80,000
1	1/2 ton Ext Cab 4WD Rearview Camera Nerf Bars Blue Tooth Laptop Mount Bucket Seats	0707012	\$36,000
1	CCTV with Launcher	0707012	\$275,000
Subtotal for 0707012			\$391,000
0707016: Sanitary Sewer Asset Management			
1	Honda Pioneer 1000	0707016	\$26,500
1	Service Truck Aux Power Unit (Air, Generator, Hydraulic) 100 Gallon Fuel Transfer Tank (Ford F450)	0707016	\$80,000
1	Pioneer 8" Trash Pump	0707016	\$60,000
Subtotal for 0707016			\$166,500
Total Sewer			\$3,433,500

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APPENDIX A – Park Inventory

SPECIAL USE PARKS	TYPE	ADDRESS	YEAR	ACRES	STATUS	C_DIST	PPD
Botanic Garden	Special Use & Nature Based	2000 UNIVERSITY DR	1892	116.5600	Act	7	4
City View	Special Use & Nature Based	7900 OAKMONT BLVD	1985	31.3100	Res	3	1
Coventry Hills	Special Use & Nature Based	8500 WESTERN MEADOWS DR	2001	21.5460	Res	4	5
Fort Worth Nature Center and Refuge	Special Use & Nature Based	9601 FOSSIL RIDGE RD	1918	3,632.870	Act	7	2
Fort Worth Zoo	Special Use & Nature Based	1500-2000 COLONONIAL PKWY	1910	58.5319	Act	9	4
Goat Island	Special Use & Nature Based	8298 MALAGA DR	1918	6.0000	Act	7	2
Greer Island	Special Use & Nature Based	7700 SHORELINE RD	1918	20.0000	Act	7	2
J.T. Hinkle	Special Use & Nature Based	6521 SHADYDELL DR	2002	5.9900	Res	7	2
Lasater	Special Use & Nature Based	1500 E HARMON RD	2004	25.1330	Act	2	5
Log Cabin Village	Special Use & Nature Based	1500-2000 COLONONIAL PKWY	1910	2.5000	Act	9	4
Meadowbrook Golf Course	Special Use & Nature Based	1815 JENSON RD	1937	138.9000	Act	4	4
Oakmont Linear	Special Use & Nature Based	7785 BELLAIRE DR SOUTH	1979	34.8800	Res	3 and 6	1
Pecan Valley Golf Course	Special Use & Nature Based	6400 PECAN VALLEY DR	1962	461.7680	Act	3	1
Rockwood Golf Course	Special Use & Nature Based	701 NORTH UNIVERSITY DR	1927	229.4870	Act	2	4
Rolling Hills	Special Use & Nature Based	2525 JOE B. RUSHING RD	1971	207.2930	Act	8	4
Saunders	Special Use & Nature Based	2401 MULE ALLEY	1977	0.4800	Act	2	4
Southridge	Special Use & Nature Based	3601 BILOXI DR	1988	2.0460	Res	6	1
Stratford Nature Area	Special Use & Nature Based	3520 EAST FRWY	1924	35.0000	Act	8	4
Sycamore Creek Golf Course	Special Use & Nature Based	401 MARTIN LUTHER KING FRWY	1977	66.2200	Act	8	4
Tandy Hills Nature Area	Special Use & Nature Based	3325 VIEW ST	1960	90.2500	Act	8	4
Tehama Trails	Special Use & Nature Based	9906 BUTTE MEADOWS DR	2011	22.8410	Act	7	5
Trinity Bluff	Special Use & Nature Based	557 SAMUELS AVE	2009	1.8390	Res	9	4
Veterans Memorial	Special Use & Nature Based	4120 CAMP BOWIE BLVD	1923	0.5100	Act	7	4
Vinyards at Heritage	Special Use & Nature Based	5280 ALTA LOMA DR	2001	44.1470	Res	4	5
Water Gardens	Special Use & Nature Based	1502 COMMERCE ST	1974	5.4000	Act	9	4
Will Rogers Memorial Center Complex	Special Use & Nature Based	3301 WEST LANCASTER AVE	1900	32.0000	Act	7	4
NEIGHBORHOOD BASED PARKS	TYPE	ADDRESS	YEAR	ACRES	STATUS	C_DIST	PPD
Alexandra Meadows	Neighborhood Based	6521 MARK IV PKWY	2005	7.5260	Act	2	5
Anderson-Campbell	Neighborhood Based	4141 OHIO GARDEN RD	1999	24.2200	Act	2	4
Arcadia Trail Park South	Neighborhood Based	4950 BASSWOOD BLVD	1996	40.1417	Act	4	5
Arneson	Neighborhood Based	1311 HOMAN AVE	1911	0.4400	Act	2	4
Arnold	Neighborhood Based	700 SAMUELS AVE	1914	3.0220	Act	9	4
Barksdale	Neighborhood Based	9611 BARKSDALE DR	2009	20.8020	Act	4	5
Blue Bonnet Circle	Neighborhood Based	3489 BLUEBONNET CIR	1949	1.2500	Act	9	4
Bonnie Brae	Neighborhood Based	3213 WESLEY ST	1957	3.7000	Act	4	4
Bunche	Neighborhood Based	5600 RAMEY AVE	1954	2.3000	Act	5	4
Burk Burnett	Neighborhood Based	501 W 7TH ST	1917	3.0300	Act	9	4
C. P. Hadley	Neighborhood Based	5301 WILDFLOWER WAY	2006	28.2240	Act	6	1
Camelot	Neighborhood Based	1517 ANDANTE DR	1986	5.2500	Act	8	1
Camp Joy	Neighborhood Based	9621 WATERCRESS DR	1918	8.2300	Act	7	2
Camp Worth	Neighborhood Based	4896 BOB WILLS DR	2012	0.3880	Act	4	5
Capps	Neighborhood Based	907 WEST BERRY	1910	4.4100	Act	9	4
Chamberlin	Neighborhood Based	4689 HALLORAN ST	1962	9.2981	Act	3	4
Chisholm Ridge	Neighborhood Based	8425 LADINA PLACE	2007	31.2900	Act	2	5
Chuck Silcox (formerly Trail Ridge Estates)	Neighborhood Based	2809 WAKECREST DR	2009	20.8100	Act	3	2
Circle	Neighborhood Based	600 PARK ST	1909	3.0600	Act	2	4
City Hall Plaza	Neighborhood Based	1000 THROCKMORTON	1975	2.5000	Act	9	4
Cobblestone Trail	Neighborhood Based	7601 JOHN T. WHITE RD	1971	24.2735	Act	5	3
Crawford Farms	Neighborhood Based	4224 WEXFORD DR	2004	6.9970	Act	7	5
Creekside	Neighborhood Based	3100 RODDY DR	1988	16.2300	Act	6	1
Crestwood	Neighborhood Based	3701 ROCKWOOD PARK DR	1982	2.0000	Act	7	4

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Crossing at Fossil Creek	Neighborhood Based	6000 MARK IV PKWY	2000	4.0230	Act	2	5	
Dabney	Neighborhood Based	7501 WHIRLWIND DR	1985	3.4480	Act	6	1	
Daggett	Neighborhood Based	2312 COLLEGE AVE	1980	3.4000	Act	9	4	
Deer Creek	Neighborhood Based	11800 HEMPHILL ST	1987	11.9900	Res	6	1	
Deer Meadow	Neighborhood Based	11600 S. OAK GROVE RD	2012	8.5030	Res	6	1	
NEIGHBORHOOD BASED PARKS		TYPE	ADDRESS	YEAR	ACRES	STATUS	C_DIST	PPD
Delga	Neighborhood Based	1001 NIXON ST	1968	4.0600	Act	8	4	
Diamond Hill H.S.	Neighborhood Based	1411 MAYDELL ST	1982	0.1000	Act	2	4	
Dorado	Neighborhood Based	415 BAVERTON LN	2009	14.2690	Act	7	5	
Eagle Mountain Ranch	Neighborhood Based	7200 BUNK HOUSE DR	2000	4.3180	Act	7	2	
Eastbrook	Neighborhood Based	2728 ESCALANTE AVE	1979	3.2000	Act	5	3	
Eastern Hills	Neighborhood Based	5900 YOSEMITE DR	1981	3.0000	Act	4	4	
Eastgate	Neighborhood Based	729 RIVER HILL LN	2015	0.9588	Res	7	4	
Eastover	Neighborhood Based	4300 RAMEY AVE	1947	13.5000	Act	5	4	
Ed K. Collett	Neighborhood Based	4800 WEST VICKERY BLVD	1971	7.6900	Act	3 and 9	4	
Ederville	Neighborhood Based	1455 NOTTINGHAM BLVD	1974	0.9100	Act	5	3	
Ellis	Neighborhood Based	3400 S. RIVERSIDE DR	1971	10.5100	Act	8	4	
Elm Street	Neighborhood Based	400 ELM ST	2002	0.2770	Act	9	4	
Englewood	Neighborhood Based	3200 HANGER AVE	1973	1.0600	Act	5	4	
Eugene McCray Park at Lake Arlington	Neighborhood Based	3449 QUAIL RD	1986	6.0700	Act	5	3	
Fairfax	Neighborhood Based	4000 EAST FAIRFAX AVE	1968	4.0000	Act	8	4	
Fairmount	Neighborhood Based	1501 5TH AVE	1990	0.6800	Act	9	4	
Falcon Ridge	Neighborhood Based	498 BROADLEAF DR	2006	6.4700	Act	3	2	
Federal Plaza	Neighborhood Based	1000 THROCKMORTON ST	1984	0.6000	Act	9	4	
First Flight	Neighborhood Based	2700 MERCEDES AVE	2013	0.6136	Res	9	4	
Foster	Neighborhood Based	3725 SOUTH DR	1952	11.9200	Act	3	4	
Fox Run	Neighborhood Based	8777 FOX MEADOW WAY	1998	9.7890	Act	6	1	
Freemons	Neighborhood Based	9850 HERON DR	1918	17.3920	Act	7	2	
Friendship	Neighborhood Based	9550 CHUPAROSA DR	2015	5.5330	Act	7	5	
General Worth Square	Neighborhood Based	916 MAIN ST	1980	1.5300	Act	9	4	
George Markos	Neighborhood Based	400 ACADEMY BLVD	1973	29.6900	Act	3	2	
Gid Hooper	Neighborhood Based	814 S. RETTA ST	1976	2.5820	Act	8	4	
Goodman	Neighborhood Based	5413 GOODMAN AVE	1967	0.1420	Act	3	4	
Greenway	Neighborhood Based	2013 EAST BELKNAP ST	1926	12.9600	Act	8	4	
Hall-Tandy Triangle	Neighborhood Based	2901 E. ROSEDALE ST.	1900	0.3200	Act	8	4	
Harrold	Neighborhood Based	1502 SUMMIT AVE	1950	2.3000	Act	9	4	
Harvest Ridge	Neighborhood Based	13025 HARVEST RIDGE RD	2005	6.3790	Act	7	5	
Harvey Street	Neighborhood Based	1413 HARVEY ST	1978	0.9400	Act	8	4	
Haynes Memorial Triangle	Neighborhood Based	1701 MAIN ST	1893	0.1000	Act	9	4	
Heritage Glen	Neighborhood Based	4400 HERITAGE GLEN DR	2005	28.8420	Act	4	5	
High Crest	Neighborhood Based	2515 BRUCE ST	2006	0.7440	Act	2	4	
Hulen Meadows	Neighborhood Based	3600 BLUE SPRINGS DR	1986	23.0400	Act	6	1	
Hyde	Neighborhood Based	201 WEST 9TH ST	1873	0.0100	Act	9	4	
Island View	Neighborhood Based	8401 WATERCRESS DR	1918	14.0000	Act	7	2	
Jefferson Davis	Neighborhood Based	4001 TOWNSEND/2000 W. BOLT ST.	1923	6.5000	Act	9	4	
Jennings-May-St. Louis	Neighborhood Based	3041 SOUTH JENNINGS AVE	1997	0.8500	Act	9	4	
Junction	Neighborhood Based	2250 PRESIDIO VISTA DR	2011	6.2040	Act	7	5	
Kellis	Neighborhood Based	4651 SOUTHRIDGE TERR	1950	16.3000	Act	9	4	
Kingsridge	Neighborhood Based	5373 CAMROSE ST	2011	19.9800	Res	7	5	
Kingswood	Neighborhood Based	7505 TRAIL LAKE DR	2000	16.7700	Act	6	1	
Krauss Baker	Neighborhood Based	3517 PARK LAKE DR	1977	18.6000	Act	6	1	
Kristi Jean Burbach	Neighborhood Based	3529 FOSSIL PARK DR	1984	14.7100	Act	4	5	
Lincoln	Neighborhood Based	2922 LINCOLN AVE	1934	7.0000	Act	2	4	
Lincolnshire	Neighborhood Based	1425 HORNCastle ST	1985	15.3810	Act	8	1	
Linwood-Jesse D. Sandoval (formerly Linwood)	Neighborhood Based	301 WIMBERLY ST	1957	4.0000	Act	9	4	
Little People	Neighborhood Based	3431 WALTON AVE	1978	2.9000	Act	6	1	
Littlejohn	Neighborhood Based	4125 LITTLEJOHN AVE	1972	0.8300	Act	5	4	
Live Oak	Neighborhood Based	2300 SILVER CREEK RD	1918	7.8500	Res	7	2	

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Lost Creek Ranch	Neighborhood Based	13861 LOST SPURS RD	2007	4.1950	Act	7	5	
Lost Spurs	Neighborhood Based	3520 ALTA VISTA RD	2000	9.9590	Act	7	5	
Louella Bales Baker	Neighborhood Based	3101 E 1ST ST	1998	0.9560	Act	8	4	
Love Circle	Neighborhood Based	7400 JACKSBORO HWY	1918	50.0000	Act	7	2	
Maddox	Neighborhood Based	2414 GOULD AVE	1905	0.9600	Act	2	4	
Malaga	Neighborhood Based	7500 MALAGA DR	1918	2.0000	Act	7	2	
Marie F. Pate	Neighborhood Based	3751 SOUTH EDGEWOOD TERR	1968	5.0000	Act	5	4	
Marina	Neighborhood Based	4033 MARINA DR	1918	5.0000	Act	7	2	
NEIGHBORHOOD BASED PARKS		TYPE	ADDRESS	YEAR	ACRES	STATUS	C. DIST	PPD
Marine Creek Linear	Neighborhood Based	3106 ANGLE AVE	1984	48.1610	Act	2	4	
Marine Creek Linear North	Neighborhood Based	3317 CHESTNUT AVE	1996	7.8300	Act	2	4	
Mary and Marvin Leonard	Neighborhood Based	6478 GENOA RD	1960	6.5300	Act	3	4	
McPherson	Neighborhood Based	1229 MCPHERSON RD	2016	12.4414	Res	8	1	
McPherson Ranch	Neighborhood Based	3950 MARTINSBURG DR	2008	7.4250	Act	7	5	
Meadow Creek	Neighborhood Based	2436 CAROLINA DR	2008	4.5240	Act	8	1	
Meadowood	Neighborhood Based	2800 MEADOWBROOK DR	1935	1.7500	Act	8	4	
Meadows West	Neighborhood Based	6400 BELLAIRE DR SOUTH	1984	17.2400	Act	3	1	
Mesa Verde	Neighborhood Based	7220 MESA VERDE TRL	1993	0.3000	Act	4	5	
Monticello	Neighborhood Based	3505 DOROTHY LN NORTH	1928	4.2400	Act	7	4	
Morningside Middle School	Neighborhood Based	2751 MISSISSIPPI AVE	1985	2.4100	Act	8	4	
Morris Berney	Neighborhood Based	6312 ROSEMONT AVE	1926	4.5000	Act	3	4	
Mosier Valley	Neighborhood Based	11220 MOSIER VALLEY RD	2015	4.0915	Res	5	3	
Newby	Neighborhood Based	1105 JEROME ST	1951	2.7500	Act	9	4	
Ninnie Baird	Neighborhood Based	8900 HAWLEY DR	2009	15.5270	Act	4	5	
Normandy Place	Neighborhood Based	3421 PANOLA AVE	1949	1.5000	Act	8	4	
Oakhurst	Neighborhood Based	2400 DAISY LN	1944	0.7500	Act	9	4	
Paddock	Neighborhood Based	100 WEST BELKNAP ST	1917	0.8000	Act	9	4	
Park Place	Neighborhood Based	7812 PARK TRAILS DR	1995	5.8000	Act	4	5	
Parks of Deer Creek	Neighborhood Based	10200 DEER TRL	2008	8.2167	Act	6	1	
Parkwood East	Neighborhood Based	7704 XAVIER DR	1985	0.1800	Res	6	1	
Parkwood Hills	Neighborhood Based	7800 PARKWOOD HILL BLVD	1998	8.6370	Act	4	5	
Patricia LeBlanc	Neighborhood Based	6300 GRANBURY CUT-OFF	1986	15.0000	Act	6	1	
Paz Hernandez	Neighborhood Based	3515 ELLIS AVE	1977	0.4140	Act	2	4	
Peter Smith	Neighborhood Based	901 JENNINGS AVE	1903	0.1000	Act	9	4	
Plover Circle	Neighborhood Based	7251 CAHOBA DR	1918	4.0000	Act	7	4	
Post Oak Village	Neighborhood Based	3830 POST OAK BLVD	1981	6.0000	Act	5	3	
Quail Ridge	Neighborhood Based	7451 DUTCH BRANCH RD	1986	7.3300	Act	6	1	
Ranches East	Neighborhood Based	3801 LAZY RIVER RANCH RD	2007	18.5240	Act	7	5	
Reata	Neighborhood Based	9489 SILLS WAY	2010	8.1160	Act	7	5	
Remington Pointe	Neighborhood Based	6050 WESTERN PASS	1999	10.5640	Res	2	2	
Ridgeview Farms	Neighborhood Based	8628 PRAIRIE DAWN DR	2007	7.3190	Act	2	5	
Ridglea Hills	Neighborhood Based	4589 STONEDALE RD	1983	6.1000	Act	3	4	
River Park	Neighborhood Based	3100 BRYANT IRVIN RD	1984	11.6300	Act	3	4	
River Trails III	Neighborhood Based	8570 SAN JOAQUIN TRL	1998	4.4560	Act	5	3	
Rodeo	Neighborhood Based	2605 NORTH HOUSTON ST	1971	5.3000	Act	2	4	
Rosedale Plaza	Neighborhood Based	5200 EAST ROSEDALE ST	1969	6.2500	Act	5	4	
Rosemary Ridge	Neighborhood Based	4350 RED CLOVER LN	2010	6.2500	Act	6	1	
Rosen	Neighborhood Based	2200 MCCANDLESS ST	1971	8.8035	Act	2	4	
Rosenthal	Neighborhood Based	5200 HASTINGS DR	1979	1.5300	Act	6	1	
Ryan Place Triangle	Neighborhood Based	3001 FIFTH AVE	1974	0.2700	Act	9	4	
Sagamore Hills	Neighborhood Based	4719 HAMPSHIRE BLVD	1968	4.1500	Act	5	4	
Sandy Lane	Neighborhood Based	2001 SANDY LN	1967	28.7000	Act	5	3	
Sandybrook	Neighborhood Based	7049 GREENVIEW CIRCLE NORTH	1984	2.9200	Act	5	3	
Saratoga	Neighborhood Based	12633 SARATOGA SPRINGS CIR	2014	21.1150	Act	7	5	
Seminary Hills	Neighborhood Based	5101 TOWNSEND DR	1968	6.1800	Act	9	4	
Sendera Rach	Neighborhood Based	14151 SENDERA RANCH BLVD	2017	33.9580	Act	7	5	
Settlement Plaza	Neighborhood Based	9745 FRANCESCA DR	2000	10.4000	Act	3	2	

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Shackleford	Neighborhood Based	4615 SHACKLEFORD ST	1984	11.9740	Act	8	4	
Silver Sage	Neighborhood Based	7017 SILVER SAGE DR	1982	10.4600	Act	4	5	
Sinclair	Neighborhood Based	9899 SINCLAIR ST	2009	16.4830	Act	7	5	
Smith-Wilemon	Neighborhood Based	925 WILLOW RIDGE RD	1998	3.2270	Act	4	4	
South Meadows	Neighborhood Based	2300 KELTON ST	1998	3.5900	Act	8	1	
Southcreek	Neighborhood Based	6746 WESTCREEK DR	1983	6.3000	Act	6	1	
Springdale	Neighborhood Based	2301 DAVID DR	1958	4.0000	Act	4	4	
Stephens	Neighborhood Based	2701 WEST GAMBRELL ST	1984	4.0000	Act	9	4	
Stonecreek	Neighborhood Based	12801 SWEET BAY DR	2002	10.2050	Act	5	3	
Stratford	Neighborhood Based	4057 MEADOWBROOK DR	1924	15.0000	Act	8	4	
Summer Creek Ranch	Neighborhood Based	8501 BENTWATER LN	2000	6.2270	Act	6	1	
Summerbrook	Neighborhood Based	4315 HUCKLEBERRY DR	1985	27.2700	Act	4	5	
NEIGHBORHOOD BASED PARKS		TYPE	ADDRESS	YEAR	ACRES	STATUS	C. DIST	PPD
Summerfields	Neighborhood Based	6720 SPOONWOOD LN	1978	9.4000	Act	4	5	
Summerfields Chisholm	Neighborhood Based	3970 MALIBU SUN DR	1995	4.5400	Act	4	5	
Summerfields Northwest	Neighborhood Based	7755 BUTTONWOOD DR	1985	4.9900	Act	4	5	
Sundance Springs	Neighborhood Based	7791 HAWKWOOD TR	2008	5.3850	Act	8	1	
Sunset	Neighborhood Based	8855 WATERCRESS DR	1918	10.0000	Act	7	2	
Sunset Hills	Neighborhood Based	7017 ELLIS RD	1960	7.5400	Act	4	3	
Sunset Hills North	Neighborhood Based	3600 SUNSET HILLS DR	2004	6.7300	Act	4	5	
Tadlock	Neighborhood Based	4665 EASTLINE DR	1959	4.5000	Act	8	4	
Tandy Hills	Neighborhood Based	3325 VIEW ST	1960	15.0000	Act	8	4	
Tehama Ridge	Neighborhood Based	2137 RAVENS NEST DR	2011	3.1810	Act	7	5	
Terry	Neighborhood Based	3104 NORTH TERRY ST	1970	0.4300	Act	2	4	
Thorny Ridge	Neighborhood Based	9036 NORTH NORMANDALE ST	1982	3.7600	Act	3	4	
Tim Watson	Neighborhood Based	8851 S. NORMANDALE ST	2016	7.9100	Res	3	4	
Titus Paulsel	Neighborhood Based	2000 BRINKLEY ST	1994	10.0000	Act	5	4	
Traders Oak	Neighborhood Based	1206 SAMUELS AVE	1953	3.2770	Act	9	4	
Trail Lake Estates	Neighborhood Based	7160 TRAIL LAKE DR	2001	4.5750	Res	6	1	
Trails of Fossil Creek	Neighborhood Based	10451 FOSSIL HOLLOW DR	2011	10.2570	Act	7	5	
Twin Mills	Neighborhood Based	5100-5101 WILD OATS DR	2006	10.9260	Act	7	2	
Village Creek	Neighborhood Based	4750 WILBARGER ST	1959	24.3100	Act	5	4	
Vinca Circle	Neighborhood Based	7800 MALAGA DR	1918	5.1880	Act	7	2	
Vista West	Neighborhood Based	10510 VISTA HEIGHTS BLVD	2007	5.0300	Act	3	2	
Walnut Creek	Neighborhood Based	9847 MULLINS CROSSING/5244 CONCHO VALLEY	2009	5.5920	Act	3	1	
Watts	Neighborhood Based	700 MAY ST	2008	0.9120	Act	9	4	
Wedgwood	Neighborhood Based	5309 WINIFRED DR	1955	6.6600	Act	6	1	
Wesleyan Hills	Neighborhood Based	2608 STRONG AVE	2017	0.5450	Res	8	4	
West Fork Ranch	Neighborhood Based	2350 ANGONI WAY	2014	4.7690	Act	2	5	
Westcreek	Neighborhood Based	6008 JENNIE DR	1971	17.0000	Act	6	1	
Western Hills	Neighborhood Based	8850 CHAPIN RD	1965	17.8900	Act	3	4	
Westwind	Neighborhood Based	2833 LAREDO DR	1981	2.1000	Act	3	4	
Whitfill	Neighborhood Based	2701 GRAND GULF RD	2017	22.6460	Act	6	1	
Wildwood	Neighborhood Based	9849 WATERCRESS DR	1918	6.0000	Act	7	2	
William McDonald	Neighborhood Based	5400 EASTLAND ST	1981	13.8500	Act	5	4	
Willow Ridge	Neighborhood Based	11590 MESA CROSSING DR	2008	5.3130	Act	7	5	
Willowcreek	Neighborhood Based	1285 SYCAMORE SCHOOL RD	1984	8.6800	Act	8	1	
Windswept Circle	Neighborhood Based	6925 CAHOBA DR	1918	3.0000	Act	7	4	
Woodland Springs	Neighborhood Based	11801 COPPER CREEK DR	2001	17.0831	Act	7	5	
Woodmont	Neighborhood Based	2300 WOODMONT TRL	1982	15.0000	Act	6	1	
Worth Hills	Neighborhood Based	3301 BENBROOK BLVD	1972	1.5000	Act	9	4	
Wright Tarlton	Neighborhood Based	4725 BYERS AVE	1969	0.7000	Act	7	4	
COMMUNITY BASED PARKS		TYPE	ADDRESS	YEAR	ACRES	STATUS	C. DIST	PPD
Anderson	Community Based	5052 CROMWELL-MARINE CREEK RD	1998	34.5940	Act	2	2	
Arcadia Trail	Community Based	7613 ARCADIA TRL	1990	69.0790	Act	4	5	
Arcadia Trail Park North	Community Based	8744 ARCADIA PARK DR	1994	177.2365	Act	4	5	
Arrow S	Community Based	7951 CAHOBA DR	1918	37.8000	Act	7	2 & 4	

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Buck Sansom	Community Based	3600 SANSOM PARK DR	1927	131.6000	Act	2	4
Candleridge	Community Based	4301 FRENCH LAKE DR	1976	88.0310	Act	6	1
Carter	Community Based	4351 CARTER PARK DR	1951	163.4767	Act	8	4
Casino Beach	Community Based	7451 WATERCRESS DR	1918	44.0000	Act	7	2
Chadwick Farms	Community Based	15700 CLEVELAND-GIBBS RD	2009	39.1900	Act	7	5
Chisholm Trail: Recreation Center	Community Based	4936 MCPHERSON BLVD	1998	84.2128	Act	6	1
Cobb	Community Based	1600-3000 COBB DR	1923	224.4680	Act	8	4
Como: Neighborhood Center	Community Based	4900 HORNE ST	1973	1.2000	Act	3	4
Diamond Hill: Recreation Center	Community Based	3709 WEBER ST	1968	9.8800	Act	2	4
Echo Lake	Community Based	1000 ECHO LAKE DR	2017	41.3260	Act	9	4
Eugene McCray: Recreation Center	Community Based	4932 WILBARGER ST	2000	3.0000	Act	5	4
North Tri-Ethnic Neighborhood Center	Community Based	2950 ROOSEVELT AVE	1976	3.2200	Act	2	4
Fire Station: Recreation Center	Community Based	1601 LIPSCOMB ST	1975	3.0500	Act	9	4
Forest Park	Community Based	1500-2000 COLONIAL PKWY	1910	120.8780	Act	9	4
Gateway: Fort Woof	Community Based	751 BEACH ST	1979	635.1110	Act	4	4
Glenwood	Community Based	900 S. RIVERSIDE DR	1927	36.9184	Act	8	4
Greenbriar: Recreation Center	Community Based	5200 HEMPHILL ST	1973	49.1221	Act	9	4

COMMUNITY BASED PARKS	TYPE	ADDRESS	YEAR	ACRES	STATUS	C. DIST	PPD
Hallmark	Community Based	820 SYCAMORE SCHOOL RD	1963	25.3530	Act	8	1
Handley: Handley-Meadowbrook Recreation Center	Community Based	6201 BEATY ST	1948	15.45	Act	5	3
Harmon Field	Community Based	1501 MARTIN LUTHER KING JR. FRWY	1952	97.5000	Act	8	4
Harriet Creek Ranch	Community Based	16215 COWBOY TRAIL	2005	32.1680	Act	7	5
Heritage	Community Based	300 N. MAIN/600 CONGRESS ST	1975	112.8080	Act	2 and 9	4
Heritage Addition	Community Based	3600 BLK HERITAGE TRACE PKWY	2001	36.7900	Act	4	5
Highland Hills: Recreation Center	Community Based	1600 GLASGOW RD	1968	28.6590	Act	8	1
Hillside: Recreation Center	Community Based	1201 E. MADDOX AVE	1911	24.1400	Act	8	4
Lake Como	Community Based	3401 LAKE COMO DR	1950	59.1377	Act	3 and 9	4
Mallard Cove	Community Based	375 SHADOW GRASS AVE	2003	103.9240	Act	5	3
Marine	Community Based	303 NW 20TH ST	1894	12.0000	Act	2	4
Marine Creek Lake	Community Based	4700 HUFFINES BLVD	1984	69.9700	Res	2	2
Marine Creek Ranch	Community Based	5101 CROMWELL MARINE CREEK RD	2008	42.9570	Res	2	2
Marion Sansom	Community Based	2501 ROBERTS CUT-OFF RD	1933	264.0000	Act	7	4
Martin Luther King: Neighborhood Center	Community Based	5565 TRUMAN DR	1969	5.7800	Act	5	4
Mosque Point	Community Based	8375 CAHOBA DR	1918	80.0000	Act	7	2
North	Community Based	9000 NORTH BEACH ST	1999	61.5160	Act	4	5
North Z. Boaz: R.D. Evans Recreation Center	Community Based	3200 LACKLAND RD	1928	138.3000	Act	3	4
Northside: Neighborhood Center	Community Based	1100 NW 18TH ST	1946	15.0000	Act	2	4
Northwest Community	Community Based	8575 BLUE MOUND RD	2011	245.7690	Act	7	5
Oak Grove	Community Based	1749 OAK GROVE SHELBY RD	2015	67.3900	Res	8	1
Oakland Lake	Community Based	1645 LAKE SHORE DR	1927	69.0000	Act	8	4
Oakmont	Community Based	7000 BELLAIRE DR SOUTH	1981	127.1700	Act	3	1
Overton	Community Based	3500 OVERTON PARK DR EAST	1959	48.6800	Act	3	4
Pecan Valley	Community Based	6400 PECAN VALLEY DR	1962	190.1420	Act	3	1
Prairie Dog	Community Based	5060 PARKER HENDERSON RD	1970	39.5600	Act	5	4
Quanah Parker	Community Based	5401 RANDOL MILL RD	1997	68.0000	Act	4	4
Riverside	Community Based	501 OAKHURST SCENIC DR	1974	30.8000	Act	9	4
Rockwood	Community Based	701 NORTH UNIVERSITY DR	1927	50.4637	Act	2	4
Rosemont	Community Based	1400 WEST SEMINARY DR	1927	30.4000	Act	9	4
Southside: Neighborhood Center	Community Based	959 EAST ROSEDALE ST	1993	2.0000	Act	8	4
Southwest: Recreation Center	Community Based	4320 ALTAMESA BLVD	1969	1.8000	Act	6	1
Sycamore: Recreation Center	Community Based	2525 EAST ROSEDALE ST	1909	88.0170	Act	8	4
Sylvania	Community Based	3700 EAST BELKNAP ST	1926	29.2200	Act	4	4
Thomas Place: Recreation Center	Community Based	4201 LAFAYETTE AVE	1970	2.7600	Act	7	4
Trail Drivers	Community Based	1700 NE 28TH ST	1928	39.6100	Act	2	4
Trinity	Community Based	2401 UNIVERSITY DR	1892	252.0000	Act	9	4
Victory Forest: South Central Recreation Center	Community Based	1000 W BIDDISON ST	2010	11.1532	Act	9	4
West Park	Community Based	8787 HERON DR	2001	212.2000	Act	7	2
Wildwood North	Community Based	9900 WATERCRESS DR	1918	124.3470	Res	7	2

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Worth Heights: Neighborhood Center	Community Based	3812 SOUTH JONES ST	1968	0.5800	Act	9	4
Z Boaz South	Community Based	5250 OLD BENBROOK RD	1928	134.3800	Act	3	4
TOTAL NUMBER OF PARKS		277	TOTAL ACRES		11,985.72		

APPENDIX B – Park Funds

Fund Name	Fund #	Source/Purpose
PACS Endowment Gas Lease	13001	Gas well revenues, which include bonuses, royalties, pipeline easements, mitigation fees, which include temporary water lines, surface use fees.
Special Purpose Fund	25002	Revenue generated from fees, reimbursements and one-time gifts to fund operating expenses and capital projects.
General Capital Projects Fund	30100	Miscellaneous funds designated for Capital improvement projects.
Developer Contribution Fund	30104	Contributions from developers for the specific use at designated parks for capital improvements.
Special Donations Cap Projects	30105	Donations received from organizations and/or individuals for the specific use at designated parks for capital improvements.
Intergovernmental Contribution	30106	Revenue from other governmental agencies to be used for capital improvements at designated parks.
PACS Dedication Fees Fund	30110	Revenue from development of neighborhoods to create parks. This includes fees from developers and interest.
Grants Cap Projects Federal	31001	Revenues from Federal Grants to fund capital improvement projects.
Grants Capital Project State	31002	Revenues from State Grants to fund capital improvement projects.
Grants Capital Project Other	31003	Revenues from Other/Local Grants to fund capital improvement projects.
PACS Gas Lease Cap Projects	33002	Gas well revenues, which include bonuses, royalties, pipeline easements, mitigation fees, which include temporary water lines, surface use fees received after 10/1/2015.
Muni Golf Gas Lease Cap Proj	33004	Gas well revenues, which include bonuses, royalties, pipeline easements received after 10/1/2015.
2014 Bond Program	34014	Revenues from 2014 Bond program to fund capital improvement projects.
Specially Funded Projects Fund	39007	Miscellaneous revenues for the purpose of funding capital projects.
Lake Worth Gas Lse Cap Legacy	39301	Gas well revenues, which include bonuses, royalties, pipeline easements, mitigation fees, which include

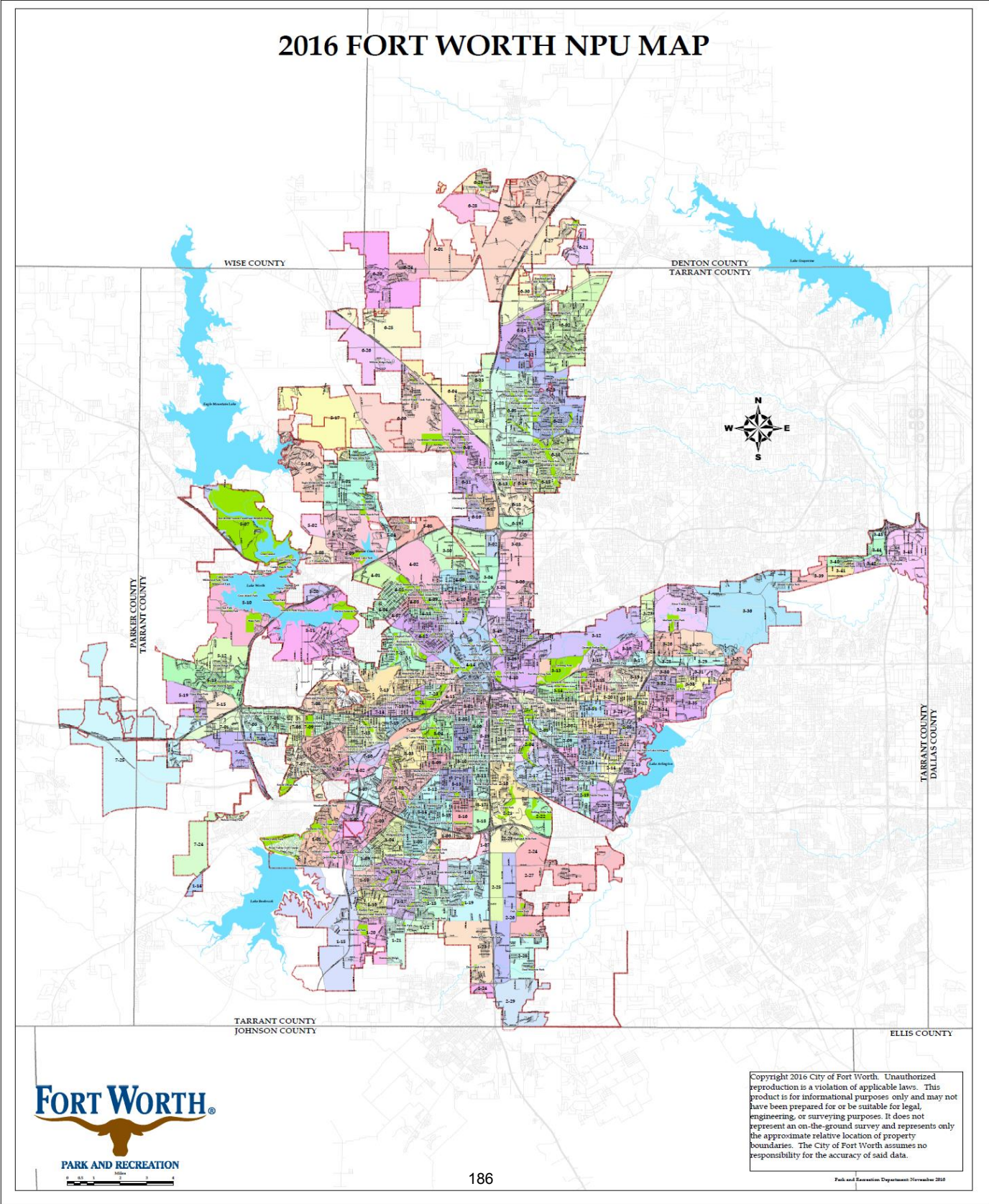
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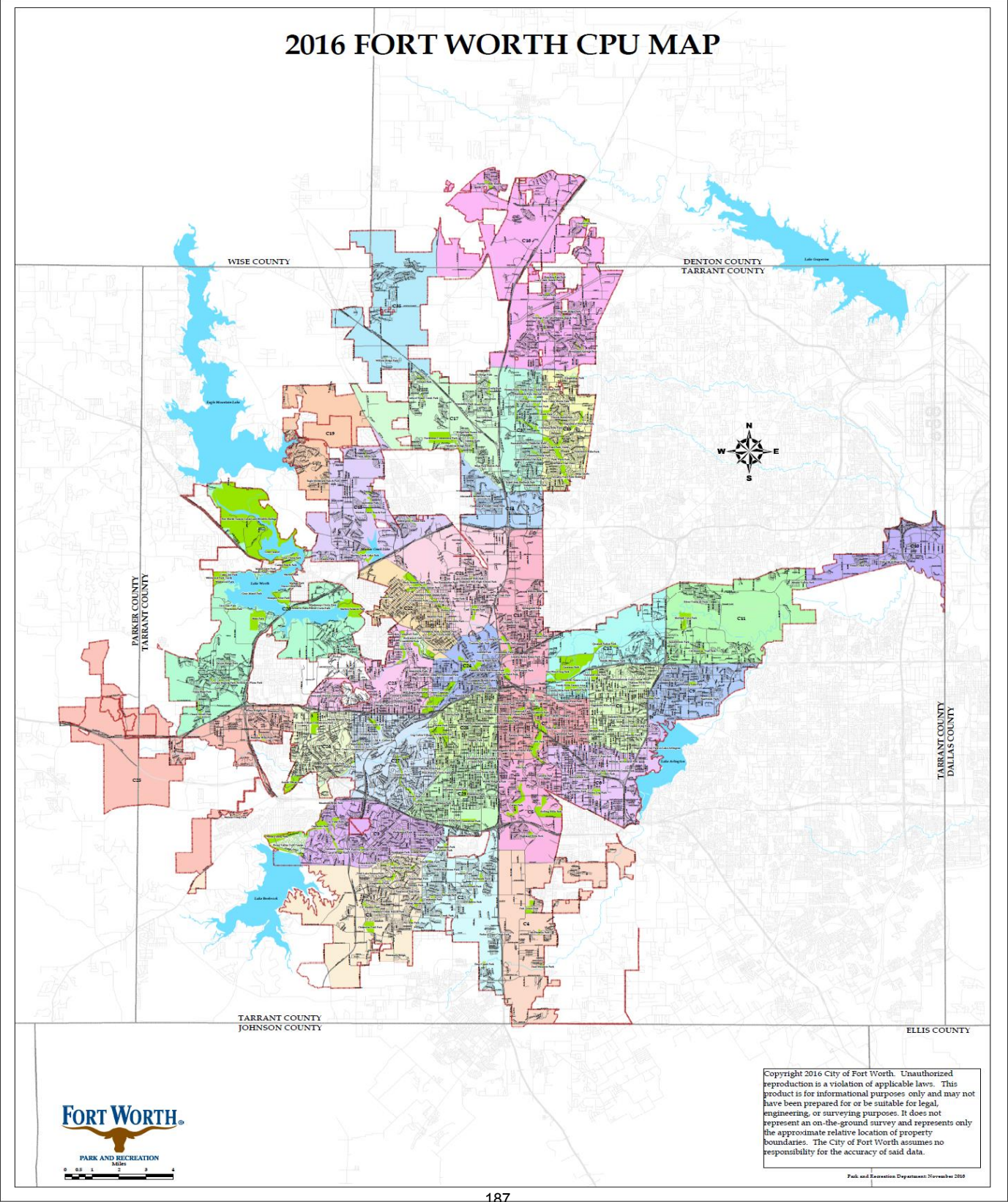
		temporary water lines, surface use fees from park land located in and around Lake Worth.
PACS Gas Revenue Legacy Fund	39302	Gas well revenues, which include bonuses, royalties, pipeline easements, mitigation fees, which include temporary water lines, surface use fees received prior to 10/1/2015.
Muni Golf Gas Lse Proj Legacy	39304	Gas well revenues, which include bonuses, royalties, pipeline easements received prior to 10/1/2015.
Street Improvements Fund	39403	Revenues from 2004 Bond program to fund capital improvement projects.
PACS Improvements Fund	39801	Revenues from 2004 Bond program and 2013 Certificates of Obligations to fund capital improvement projects.
Muni Golf Gas Cap Conversion	53005	Conversion of Gas well revenues, which include bonuses, royalties, pipeline easements received prior to 10/1/2015.

The map displays the four Park Service Districts of Fort Worth, Texas, each color-coded: Central (yellow), East (orange), North (light blue), and South (dark blue). The West district is shown in pink. The map includes labels for surrounding counties: Wise County, Denton County, Tarrant County, and Parker County. A legend in the bottom right corner defines the symbols for Fort Worth City Limit, County Boundary, Recreation and Neighborhood Services Centers, Street, Lake, River, Municipal Golf Course, Park, and Park Service District. A north arrow is located in the upper right quadrant.

APPENDIX D – Neighborhood Park Units Map



APPENDIX E – Community Park Units Map



APPENDIX F – Park Completed Projects List

PARK & RECREATION DEPARTMENT - COMPLETED PROJECTS		
(as of August 31, 2017)		
The following projects have been completed in the timelines as noted. All capital improvement projects are funded primarily from the proceeds of Parks, Recreation and Community Center Improvement bonds, other sources include:		
ALF - Annual Lease Fees	Mayfest - Mayfest Revenue	
CDBG - Community Development Block Grant	MEWA - Mitigation / Easement / Workspace Agreement Funds	
CIP - Capital Improvement Program	NPG - Neighborhood Park Grant	
CO - Certificates of Obligation	Other - Waste Management, Tarrant County	
CPRF - Capital Project Reserve Fund	PDF - Park Dedication Fees	
Donation - Funds Gifted From Private Sources	PE - Pipeline Easements	
GEF - Golf Enterprise Fund	S&V - Streams & Valleys Inc. Funds	
GF - General Fund	TIF - Tax Increment Financing	
Grants - Local, State, Federal Agencies or Private Organizations	TPWD - Texas Parks and Wildlife Department Grant	
GRF - Gas Revenue Funds	TRWD - Tarrant Regional Water District	
LISTING OF COMPLETED PROJECTS		

FISCAL YEAR	NO.	AMOUNT		
FY 2017 Completed Projects	25	\$8,878,415		
FY 2016	34	\$22,175,138		
FY 2015	10	\$4,941,138		
FY 2014	15	\$6,777,670		
FY 2013	14	\$10,492,286		
FY 2012	33	\$14,254,579		
FY 2011	33	\$7,037,085		
FY 2010	23	\$4,975,721		
FY 2009	56	\$12,365,647		
FY 2008	18	\$5,363,459		
FY 2007	23	\$10,414,452		
FY 2006	44	\$3,307,767		
FY 2005	42	\$2,405,454		
FY 2004	38	\$3,785,006		
FY 2003	27	\$6,056,678		
FY 2002	47	\$6,535,104		
FY 2001	17	\$5,014,770		
FY 2000	53	\$5,125,816		
FY 1999	41	\$4,003,845		
FY 1998	<u>13</u>	<u>\$1,453,675</u>		
FY 1997 - Present: Total No. Projects /	606	\$145,363,706		
FY 2017 Completed Projects	CD	Amount	Source	Completi
Highland Hills Park – Park Improvements	8	\$89,694	GRF	Oct-16

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Eugene McCray Park at Lake Arlington	5	\$110,665	GRF	Oct-16
Bunche Park Master Plan	5	\$30,475	CIP	Oct-16
Harmon Athletic Field / Park Improvements	8	\$1,520,253	GRF/ CIP /	Oct-16
Village Creek Shelter Replacement	5	\$130,000	GRF	Dec-16
Diamond Hill Park Improvements	2	\$61,000	CDBG / GRF	Dec-16
Camelot Park Improvements	8	\$52,398	GRF	Dec-16
Traders Oak Park Improvements	2	\$53,056	GRF	Dec-16
Gateway Park Road and Parking Lot	4	\$683,767	CIP / GRF	Jan-17
Sandy Lane Park Improvements	5	\$1,503,046	CIP / GRF /	Jan-17
Fort Worth Nature Center Boardwalk	7	\$1,383,346	CO/ CIP /	Jan-17
Pecan Valley Golf Course Pump Station	3	\$660,000	GRF	Jan-17
Sylvania Park / Riverside CC Road & Parking	4	\$233,065	CIP / GRF	Feb-17
Lost Spurs Park Improvements	7	\$327,301	GRF	Feb-17
Oakland Lake Park Improvements	8	\$516,339	CIP / GRF /	Feb-17
Victory Forest Trail Improvements	9	\$150,000	CIP	Mar-17
Jennings May St. Louis - ADA Improvements and	9	\$25,000	GRF	Mar-17
J.T. Hinkle Park Development	7	\$330,697	CIP / PDF /	Apr-17
Coventry Hills Park Development	4	\$187,941	PDF	Apr-17
Englewood Park Improvements	5	\$25,000	GRF	May-17
Dabney Park Improvements	6	\$25,000	CIP, GRF	May-17
Foster Park Improvements	3	\$64,000	GRF	Jun-17
Eastgate Reserve Park Development	7	\$195,000	PDF / GRF	Jun-17
Fort Worth Nature Center Levee Repair	CW	425,000	CIP / Grant /	Aug-17
Kellis Park Parking Lot Improvements	9	\$96,372	CIP	Aug-17
Total Completed Projects: 25 Projects		\$8,878,415		
FY 2016 Completed Projects	CD	Amount	Source	Completion Date
Martin Luther King Park Ball Field Lighting Replacement	5	\$235,000	CO	Nov-15
Trail Drivers Park Ball Field Lighting Replacement	2	\$235,000	CO	Nov-15
Northwest Community Park Development - Phase I	7	\$1,083,730	TPWD / PDF	Nov-15
McLeland Tennis Center – Court Resurfacing	9	\$56,960	GRF / Donation	Nov-15
Eugene McCray Park at Lake Arlington Parking Lot	5	\$31,143	GRF / Other	Dec-15
Log Cabin Village Sanitary Sewer and Restroom	9	\$282,292	GRF / CIP	Dec-15
Forest Park Improvements	9	\$1,248,673	GRF / CIP	Dec-15
River Park Trail	3	\$10,000	Donation	Dec-15
Ridglea Hills Park Improvements	3	\$31,814	GRF / Donation	Dec-15
Delga Park Trail Improvements	8	\$47,000	CDBG	Jan-16
Oakmont Linear Park South Trail Development	6	\$167,572	GRF	Mar-16
Hallmark Park Improvements	8	\$231,938	PDF / GRF	Mar-16
Jefferson Davis Park Improvements	9	\$200,561	GRF / PM	Mar-16
North Z. Boaz Community Park Phase 1 and 2	6	\$1,750,000	GRF / ALF / CIP / Donation	Mar-16

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Mallard Cove Park Improvements	5	\$233,238	CIP / MEWA	Apr-16
Creeside Park Improvements	6	\$202,431	CIP / GRF	Apr-16
Quail Ridge Park Improvements	6	\$212,058	CIP / GRF	Apr-16
Lincolnshire Park Improvements	8	\$268,164	CIP / CO / GRF	Apr-16
Shackleford Park Improvements	8	\$206,108	CIP / CO / GRF	Apr-16
Gateway Park / Grant Development	4	\$2,385,442	GRF / TPWD / S&V / TRWD / CPRF / Other	Apr-16
Terry Park Improvements	2	\$280,200	CO / GRF / CIP	May-16
Northside Park Improvements	2	\$336,240	GRF / CIP	May-16
Highcrest Park Improvements	2	\$268,725	PDF	May-16
Summerfields Park Improvements	4	\$198,000	CIP / CO	May-16
Rosen Park Accessible Walks and Shelter Improvements	2	\$11,000	GRF	May-16
Chisholm Trail Community Park - Phase I	6	\$3,800,000	CIP	Jun-16
Martin Luther King Park Parking Lot Improvements	5	\$84,150	CIP	Jun-16
West Vickery Streetscape - NTTA	9	\$750,000	CIP	Jul-16
River Trails Playground	5	\$145,200	GRF	Jul-16
Chadwick Park - Multi-Purpose Courts & Trail	7	\$81,500	PDF / MEWA	Jul-16
River Park - Neigh. Trans. Connect.- Ped. /Byc. Grant	3	\$118,000	Grant / S&V / TRWD	Aug-16
Oakland Drive - Neigh. Trans. Con.- Ped. /Byc. Grant	4	\$768,000	Grant / S&V / TRWD	Aug-16
Kellis Park - Neigh. Trans. Con.- Ped. /Byc. Grant	9	\$890,000	Grant / S&V / TRWD	Aug-16
Rockwood Golf Course Renovation	2	5,325,000	CPRF/CIP/GRF/TRWD	Sep-16
Total Completed Projects: 34 Projects		\$22,175,138		
FY 2015 Completed Projects	CD	Amount	Source	Completion Date
Rodeo Park (Marine Creek Corridor Improvements)	2	\$435,370	TPWD/CIP/GRF	Dec-14
Lincoln Park (Marine Creek Corridor Improvements)	2	\$512,334	TPWD/CIP/GRF	Dec-14
Marine Creek Linear Park (Marine Creek Corridor Improvements)	2	\$1,214,207	TPWD/CIP/GRF	Dec-14
Buck Sansom Park (Marine Creek Corridor Improvements)	2	\$1,228,008	TPWD/CIP/GRF/CO	Dec-14
Botanic Garden Horseshoe Walk Replacement	7	\$29,500	Donation	Feb-15
Arcadia Park Trail Connection	4	\$162,030	PDF	Apr-15
Cobb Park - Road & Drainage Improvements	8	\$556,690	GRF / CIP /TRWD	May-15
Diamond Hill Skate Park	2	\$120,000	CDBG	Aug-15
Sagamore Hills Park Playground Replacement	5	\$155,000	CDBG	Aug-15
Patricia LeBlanc Accessible Playground Renovation	6	\$528,000	CIP / Donation	Aug-15
Total Completed Projects: 10 Projects		\$4,941,138		
FY 2014 Completed Projects	CD	Amount	Source	Completion Date
Sycamore Park Improvements	8	\$574,219	2004 CIP, GRF	Oct.-13
Pecan Valley Golf Course Clubhouse & Pavilion	CW	\$355,361	GRF	Oct.-13

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Heritage Addition Improvements	4	\$104,854	PDF	Nov.-13
Chisholm Trail Community Center	6	\$4,663,114	98-04 CIP/GRF/CO/T PWD	Jan.-14
Rockwood Park Drainage Assessment	2	\$65,440	MEWA	Jan.-14
Rotary Plaza at Trinity Park	9	\$220,000	TPWD / Donation	Feb.-14
Crestwood Park Improvements	7	\$14,742	GRF	Feb.-14
West Fork Ranch Park Development	2	\$273,864	PDF	Feb.-14
Saratoga Park Development	7	\$211,616	PDF	Feb.-14
Federal Plaza Renovation	9	\$40,000	Grants	Mar.-14
Far Northside Park - Shelter Replacement	2	\$44,944	GRF	Jun.-14
Fire Station Park - Shelter Replacement	9	\$45,809	GRF	Jun.-14
Hillside Park Trail	8	\$97,726	CO	Jul.-14
Morris Berney Park Trail and Picnic Tables	3	\$58,480	GRF / Donation	Aug.-14
Worth Hills Drinking Fountain	9	\$7,500	GRF	Aug.-14
Total Completed Projects: 15 Projects		\$6,777,670		
FY 2013 Completed Projects	CD	Amount	Source	Completion Date
JFK Memorial / General Worth Square	CW	\$1,450,000	Donation / GRF	Oct.-12
Botanic Garden Conservatory South Parking Renovation	7	\$730,974	04 CIP / GRF	Oct.-12
Japanese Garden ADA Renovations	7	\$622,000	Donation / GRF	Oct.-12
Veteran's Memorial Park - Anchor Installation	7	\$8,574	GRF	Oct.-12
McDonald Park Shelter Improvements	5	\$120,223	GRF	Nov.-12
Candleridge Park / French Lake Shelter & Loop Trail Installation	6	\$255,287	GRF	Feb.-13
Rockwood Golf Course Pavilion Installation	2	\$22,000	GRF	Feb.-13
Delga Park Improvements	8	\$44,000	GRF / Donation	Mar.-13
Marine Park Improvements	2	\$286,149	GRF	May.-13
Marine Park Pool Renovation	2	\$3,850,000	Cap. Proj. Res. / CDBG	May.-13
Forest Park Pool Repair	9	\$830,000	Donation / Cap. Proj. Res.	May.-13
Russom Ranch YMCA Athletic Complex	6	\$1,700,000	YMCA / GRF	May.-13
Trail Drivers Park Trail Connection (Transportation & Community & System Preservation Pilot Program Grant)	2	\$511,286	TxDOT / GRF	Jul.-13
Meadows West Park Trail connection to Oakmont Park	3	\$61,793	GRF	Aug.-13
Total Completed Projects: 14 Projects		\$10,492,286		
FY 2012 Completed Projects	CD	Amount	Source	Completion Date
Marion Sansom Park Parking Improvements	7	\$235,000	GRF	Oct.-11
Anderson Campbell Reserve Park Development	2	\$300,000	04 CIP / GRF	Oct.-11
Parkwood Hills Reserve Park Development	4	\$330,000	04 CIP/GRF/Dona tion	Oct.-11
Stephens Park Playground	9	\$52,578	Risk Mangt.Funds	Oct.-11

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Rockwood GC - 1st TEE / Ben Hogan Training Center	2	\$1,500,000	Private	Nov.-11
Rolling Hills Parking Expansion	8	\$994,732	04 CIP	Nov.-11
Highland Hills Park Parking Expansion	8	\$104,882	GRF	Nov.-11
4th & Elm Pocket Park	9	\$16,300	PDF	Nov.-11
Marion Sansom Park Shelter Renovation	7	\$307,229	GRF	Dec.-11
Quanah Parker Park Improvements	4	\$166,244	GRF	Dec.-11
Candleridge Park - Weatherwood Trail Installation	6	\$60,000	GRF	Dec.-11
Tehama Ridge / Tehama Trails Joint Park Development	7	\$285,407	PDF	Dec.-11
Trails of Fossil Creek Park Development	7	\$121,825	PDF	Dec.-11
Botanic Gardens Sidewalk Repair	7	\$20,450	GF	Feb.-12
R.D. Evans Community Center Renovation	3	\$400,000	04 CIP / GRF	Mar.-12
Arcadia Park No. 4 Playground Renovation	4	\$72,300	Private / GF	Mar.-12
Cobb Park Phase I Redevelopment	8	\$4,007,426	TRWD /GRF	Mar.-12
Rosemont Park CVS Tot Lot	9	\$40,090	Donation	Mar.-12
Rolling Hills Tree Farm Fencing Installation	8	\$27,500	04 CIP	Apr.-12
Marine Park Pool Renovation	2	\$149,000	General Fund	May.-12
McPherson Ranch Reserve Park Development	7	\$181,170	PDF	Jun.-12
Rosemont Park Improvements	9	\$108,647	GRF / TPW Funds	Jun.-12
Veteran's Park Anchor Memorial Installation	7	\$10,000	GRF	Jul.-12
Sycamore Creek Golf Course Pond Liner & Putting Green Resurf.	8	\$184,715	GEF	Jul.-12
Phyllis J. Tilley Memorial Pedestrian Bridge	9	\$3,087,579	Grant / Donation/04 CIP	Jul.-12
Trinity Park / Tilley Bridge Trail Connection	9	\$23,917	04 CIP	Aug.-12
Meadowbrook Golf Course Pond / Retaining Wall Improvements	4	\$150,000	GEF	Aug.-12
Meadowbrook Golf Course Water Irrigation Well Installation	4	\$305,200	GEF	Aug.-12
Chuck Silcox Reserve Park Development - Phase I	3	\$144,431	PDF / Donation	Aug.-12
Pecan Valley Golf Course / Hills Restroom Facility Installation	3	\$199,000	GRF	Aug.-12
Nature Center Floating Canoe Dock	7	\$2,500	TRWD	Sept. -12
Nature Center - Canoe Dock Composting Toilet	7	\$23,315	Donation	Sept.-12
Rockwood Golf Course 6 Hole Practice Course	2	\$643,142	GRF	Sept.-12
Total Completed Projects: 33 Projects		\$14,254,579		
FY 2011 Completed Projects	CD	Amount	Source	Completion Date
Handley Park Shelter and Water Fountain Installation	5	\$32,696	GRF	Oct.-10
Smith Wilemon Park Playground / Water Fountain Installation	4	\$42,244	GRF / Donation	Oct.-10
Sunset Hills Park Improvements	4	\$120,939	GRF	Oct.-10
Greenway Park Road & Parking Improvements - Phase I	8	\$391,523	2004 CIP / GRF	Nov.-10
Capps Park Shelter and Water Fountain Installation	9	\$51,786	GRF	Nov.-10
Maddox Park Shelter Installation	2	\$25,492	GRF	Nov.-10
Silver Sage Park Shelter Installation	4	\$23,999	GRF	Nov.-10
Gateway Park Trail Repair	4	\$10,000	GRF	Dec.-10

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Ed Collett Park Ballfield, Parking and Trail Improvements	3&9	\$344,276	2004 CIP / GRF	Feb.-11
Creeside Park Security Lighting & Play Equipment Installation	6	\$22,027	GRF	Feb.-11
Watts Park Development	9	\$414,641	Donation	Feb.-11
Carter Park Road & Parking Renovation	8	\$173,035	04 CIP	Mar.-11
Fort Worth Zoo Restroom Facilities	9	\$223,126	GRF	Mar.-11
Fox Run Park Security Lighting Installation	6	\$12,060	2004 CIP	Mar.-11
Trinity Park Playground Renovation	9	\$105,245	GRF / Donation	Mar.-11
Falcon Ridge Reserve Park Development	3	\$217,546	PDF	Apr.-11
C.P. Hadley Reserve Park Development	6	\$343,080	04 CIP/GRF/Donation	Apr.-11
Greenway Park Road & Parking Improvements - Phase II	8	\$165,446	04 CIP	May.-11
Kingswood Park Trail and Multi-Use slab Installation	6	\$30,757	GRF	May.-11
Carter Park South Trail and Shelter Installation	8	\$126,402	PDF	May.-11
Junction Park Development	7	\$376,401	PDF	May.-11
Reata Park Development	7	\$230,623	PDF	May.-11
Mallard Cove Reserve Park Development	5	\$304,163	GRF	Jun.-11
South Meadows Park Security Lighting Installation	8	\$5,800	2004 CIP	Jun.-11
Western Hills Park Playground Renovation	3	\$68,524	GRF	Jun.-11
Thorny Ridge Park Playground Renovation	3	\$83,610	GRF	Jul.-11
Oakhurst Park Play Equipment Installation	2	\$18,203	GRF	Jul.-11
Rockwood Park Ball Field Renovation	2	\$2,709,702	04 CIP / GRF	Jul.-11
Meadows West Park Shelter Installation	3	\$26,875	GRF	Aug.-11
George Markos Park shelter Installation	3	\$29,009	GRF	Aug.-11
Como, Worth Heights, & North Tri Comm. Center Grease Traps	CW	\$106,962	GRF	Jun. - Sept.-11
General Worth Square Improvements	9	\$29,670	GF	Sept.-11
Collett Park Ball Field Lighting Installation	3&9	\$171,223	04 CIP / GRF	Sept.-11
Total Completed Projects: 33 Projects		\$7,037,085		
FY 2010 Completed projects	CD	Amount	Source	Completion Date
Arcadia Park Security Lighting	4	\$14,287	2004 CIP	Oct.-09
Cobb Park North Security Lighting	8	\$14,287	2004 CIP	Oct.-09
Candleridge Park Playground / Bench Improvements	6	\$25,000	NPG	Nov.-09
Harriet Creek Ranch Reserve Park Development	7	\$291,597	PDF	Dec.-09
Eastern Hills Park Improvements	4	\$69,209	04 CIP	Mar.-10
Burnet Park Renovation	9	\$1,000,000	Donation	Mar.-10
Oakmont Park Improvements	6	\$1,530,708	04 CIP / GRF	April-10
Leuda Park Development	8	\$284,639	PDF	May-10
Rosemont Park Playground Renovation	9	\$90,421	04 CIP	June-10
Foster Park Parking Security Lighting	3	\$12,000	04 CIP	June-10
Rolling Hills Compound Road Improvements	8	\$117,648	04 CIP	June-10
Forest Park Towers Renovation	9	\$81,127	GRF	June-10

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Kraus Baker Park Playground renovation	6	\$66,082	GRF	June-10
Prairie Dog Park Improvements	5	\$569,376	04 CIP / GRF	July-10
Jesse D. Sandoval (Linwood) Park Trail Installation	9	\$55,000	GRF	July-10
Wedgwood Park Trail Installation	6	\$65,000	GRF	July-10
Lake Como Park (West) Parking Improvements	3	\$113,140	04 CIP	Aug. -10
Haws Athletic Center Parking Improvements	2	\$127,270	04 CIP	Aug. -10
Northside Community Center Parking improvements	2	\$153,149	04 CIP	Aug. -10
Diamond Hill Community Center Parking Expansion	2	\$133,268	04 CIP	Aug. -10
Hillside Park Stage Installation	8	\$8,095	NPG	Aug. -10
Oakland Lake Park Trail Repairs	8	\$19,541	NPG	Aug. -10
Arcadia Trail Park North Development	4	\$134,877	PDF	Sept.-11
Total Completed Projects: 23 Projects		\$4,975,721		
FY 2009 Completed Projects	CD	Amount	Source	Completion Date
Trinity Park Road, Parking & Drainage Improvements	9	\$815,310	2004 CIP	Nov.-08
Forest Park Security Lighting	9	\$14,287	2004 CIP	Nov.-08
Kellis Park Security Lighting	9	\$14,287	2004 CIP	Nov.-08
Patricia Leblanc Park Security Lighting	6	\$14,287	2004 CIP	Nov.-08
Western Hills Park Security Lighting	7	\$14,287	2004 CIP	Nov.-08
Far Northside Park Security Lighting	2	\$14,287	2004 CIP	Nov.-08
Fox Run Park Security Lighting	6	\$14,287	2004 CIP	Nov.-08
Thomas Place Park Security Lighting	7	\$14,287	2004 CIP	Dec.-08
South Central Community Center Site Selection	9	\$20,917	2004 CIP	Jan.-09
Hallmark Park Security Lighting	8	\$14,287	2004 CIP	Jan.-09
Southwest Park Security Lighting	6	\$14,287	2004 CIP	Jan.-09
Greenbriar Community Center Parking Expansion	9	\$230,983	2004 CIP / PDF	Feb. - 09
Nature Center - Entry Gate Composting Toilet Facility	7	\$24,795	Donation	Feb.-09
Nature Center - Entry Gate Solar Lighting Installation	7	\$5,000	2004 CIP	Mar.-09
Overton Park Security Lighting	3	\$14,287	2004 CIP	Mar.-09
Rosenthal Park Security Lighting	6	\$14,287	2004 CIP	Mar.-09
Cobblestone Park Security Lighting	5	\$14,287	2004 CIP	Mar.-09
Rosemont Park Security Lighting	9	\$14,287	2004 CIP	May.-09
Rodeo Park Playground Renovation	2	\$109,200	2004 CIP	May.-09
Newby Park Playground Renovation	9	\$116,865	2004 CIP	May.-09
Rosemont Park Walk Replacement	9	\$94,728	2004 CIP	May.-09
Cityview Park Master Plan	3	\$12,039	2004 CIP	May.-09
Nature Center - June Stacy Bird Blind	7	\$3,500	Donation	Jun.-09
Quanah Parker Park Improvements	4	\$110,557	GRF	Jun.-09
Eastbrook Park Playground Renovation	5	\$106,008	2004 CIP	Jun.-09
Mesa Verde Park Playground renovation	4	\$115,868	2004 CIP	Jun.-09
Cobb Park North Playground Renovation	8	\$103,814	2004 CIP	Jun.-09
Nature Center Road, Parking & Trail Improvements	7	\$353,153	2004 CIP	Jun.-09
Arcadia Park North Security Lighting	4	\$14,287	2004 CIP	Jul.-09

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Handley Park Security Lighting	5	\$14,287	2004 CIP	Jul.-09
Oakland Lake Park Security Lighting	8	\$14,287	2004 CIP	Jul.-09
Lake Como Park (West) Trail Development	3	\$25,000	1998 CIP	Jul.-09
Foster Park Parking, Drainage and Trail Improvements	3	\$318,244	2004 CIP / GRF	Sept.-09
Gateway Park Soccer Field Lighting	4	\$403,722	04 CIP	Sept.-09
Oakland Lake Park Shelter Accessibility Modification	8	\$5,500	GF	Nov.-08
North Park Community Center / YMCA	2	\$5,188,232	2004 CIP / YMCA	Dec.-08
Botanic Garden Greenhouse	7	\$1,480,049	86/98 CIP/Lease/Don	Jan.-09
Lowery Park Development	5	\$7,920	PDF	Jan.-09
Benbrook Trail Extension	3	\$145,495	2004 CIP	9-Feb
Northside Community Center Renovation	2	\$244,268	2004 CIP	Mar.-09
Tadlock Park Shelter Renovation	8	\$35,000	GRF	Mar.-09
Glenwood Park Shelter Renovation	8	\$35,000	GRF	Apr.-09
Trinity Park - Mayfest Shade Shelter	9	\$15,000	Donation	Apr.-09
Sycamore Park Basketball Court	8	\$39,028	GRF	May.-09
Riverside Community Center Renovation	4	\$331,425	2004 CIP	May.-09
Village Creek Park Basketball Court	5	\$35,000	GRF	May.-09
Log Cabin Village - Howard Cabin Restoration	9	\$242,800	GRF	Jun.-09
Dorado Park Development	7	\$299,449	PDF	Jul.-09
Cobblestone Trail Park Playground Renovation	5	\$87,500	GRF	Aug.-09
Heritage Addition Park Development	4	\$260,000	PDF	Aug.-09
Kellis Park Playground Renovation	9	\$87,500	Gas	Aug.-09
Sinclair Park Development	7	\$126,000	PDF	Sept.-09
Barksdale Park Development	4	\$168,000	PDF	Sept.-09
Walnut Creek Park Development	3	\$186,094	PDF	Sept.-09
Chadwick Farms Park Development	7	\$216,405	PDF	Sept.-09
Candleridge Park Par Course Installation	6	\$15,500	Donation	Sept.-09
Total Completed Projects: 56 Projects		\$12,449,460		
FY 2008 Completed Projects	CD	Amount	Source	Completion Date
Citywide Aquatic Study	CW	\$120,000	GRF	Dec-07
Hallmark Park Playground Renovation	8	\$95,698	2004 CIP	Jan-08
Rosenthal Park Playground & Shelter Renovation	6	\$146,944	2004 CIP / GRF	Jan-08
Eugene McCray Community Center Parking Expansion	5	\$129,755	CDBG	Jan-08
Rolling Hills Soccer Complex Parking Expansion	8	\$240,006	CDBG	Jan-08
Nature Center Land Acquisition - 8536 Marks Lane	7	\$174,055	LWTF	Jan.-08
Rockwood Park Road & Parking Improvements	2	\$468,917	2004 CIP	Feb-08
Zoo Herpetarium Support Facilities	9	\$1,324,960	1998 CIP	Mar-08
Candleridge Park Low Water Crossing Installation	6	\$19,772	GRF	Apr.-08
Far Northside Community Center Parking Improvements	2	\$153,504	2004 CIP	May-08

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Marine Park Parking Improvements	2	\$86,602	2004 CIP	May-08
Overton Park Trail improvement	3	\$227,356	2004 CIP	Jun-08
Overton Park Erosion Control Improvements	3	\$418,415	2004 CIP	Jun-08
Mallard Cove Park Master Plan	5	\$26,056	GRF	Jul-08
Willow Ridge Park Development	7	\$150,105	PDF	Jul-13
Sycamore Park Splash Pad	8	\$826,663	GRF / CDBG	Aug-08
Gateway Park Soccer Field & Parking Expansion	4	\$624,216	GRF / CDBG	Aug-08
Tandy Hills & Stratford Park Conservation Plan	8	\$130,435	GRF	Aug-08
Total Completed Projects: 18 Projects		\$5,363,459		
FY 2007 Completed Projects	CD	Amount	Source	Date
Sunset Hills Park Playground Renovation	4	\$86,967	2004 CIP	Oct-06
Buck Sansom Park Playground Renovation	2	\$105,461	2004 CIP	Nov-06
Trail Drivers Park Playground Renovation	2	\$96,973	2004 CIP	Nov-06
Silver Sage Park Playground Renovation	4	\$97,576	2004 CIP	Nov-06
Englewood Park Playground Renovation	5	\$86,437	2004 CIP	Nov-06
Greenbriar Park Improvements	9	\$160,432	CDBG	Dec-06
Paz Hernandez Park Playground Renovation	2	\$105,228	2004 CIP	Feb-07
Meadowbrook Golf Course Pavilion	4	\$200,000	GEF	Feb-07
Water Garden Renovation	9	\$2,994,952	CO	Feb-07
Riverside Park Ballfield Lighting	2	\$132,645	2004 CIP	Mar-07
Kingswood Park Shelter Installation	6	\$20,863	2004 CIP	Mar.-07
Highland Hills Park Security Lighting	8	\$33,939	Donation	Apr.-07
Meadowbrook Golf Course Sand Bunker Renovation	2	\$230,661	GEF	Jun-07
Hulen Meadows Park Playground Renovation	6	\$94,968	2004 CIP	Jun-07
Fire Station Park Playground Renovation	9	\$96,439	2004 CIP	Jun-07
Wedgwood Park Playground Renovation	6	\$94,748	2004 CIP	Jun-07
Chamberlin Park Ballfield Lighting	3	\$123,675	2004 CIP	Jun-07
Forest Park Parking Improvements	9	\$406,895	2004 CIP	Jun-07
Gateway Park Soccer Field Improvements	4	\$4,796,309	Water	Jul-07
Dabney Reserve Park Development	6	\$104,546	2004 CIP	Jul-07
Willow Creek Reserve Park Development	8	\$147,660	2004 CIP	Jul-07
South Meadows Reserve Park Development	8	\$157,934	2004 CIP	Jul-07
Forest Park Drainage Improvements	9	\$39,144	2004 CIP	Aug-07
Total Completed Projects: 23 Projects		\$10,414,452		
FY 2006 Completed Projects	CD	Amount	Source	Date
Handley Park Playground Renovation	5	\$88,662	2004 CIP	Oct-05
Gateway Park Playground Renovation	4	\$92,486	2004 CIP	Oct-05
Oakland Lake Park East Playground Renovation	8	\$85,888	2004 CIP	Oct-05
Lake Worth Property Acquisition	7	\$172,461	2004 CIP	Nov.-05
Kingswood Reserve Park Phase I Development	6	\$59,386	CIP / Donation	Nov-05
Nature Center - Entry Gate House	7	\$22,434	Donation	Nov.-05
Sunset Park Playground Renovation	7	\$86,314	2004 CIP	Dec-05
Diamond Hill Park Playground Renovation	2	\$84,699	2004 CIP	Dec-05

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Cobb Park South Playground Renovation	8	\$89,750	2004 CIP	Dec-05
South Z. Boaz Park Playground Renovation	3	\$87,729	2004 CIP	Dec-05
Seminary Hills Park Playground Renovation	9	\$85,420	2004 CIP	Dec-05
Tadlock Park Playground Renovation	8	\$86,903	2004 CIP	Jan-06
River Trails Reserve Park Development	5	\$146,124	2004 CIP	Jan-06
Summerfields Chisolm Reserve Park Development	4	\$157,502	2004 CIP	Jan-06
Como Community Center Parking Improvements	3	\$148,987	2004 CIP	Jan-06
Village Creek Park Parking Improvements	5	\$75,988	2004 CIP	Jan-06
J.T. Hinkle Reserve Park Master Plan	7	\$14,337	2004 CIP	Feb.-06
Mary & Marvin Leonard Park Playground Renovation	3	\$100,936	2004 CIP	Feb.-06
Martin Luther King Park Trail Installation	5	\$54,007	CDBG	Apr-06
Tandy Hills Park Playground Renovation	8	\$85,726	2004 CIP	May-06
Sycamore Park Playground Renovation	8	\$87,347	2004 CIP	May-06
Hillside Community Center Renovation	8	\$226,581	2004 CIP	Jun-06
Como Community Center Playground Renovation	3	\$88,615	2004 CIP	Jun-06
George Markos Park Playground Renovation	3	\$90,516	2004 CIP	Jun-06
Thomas Place Park Playground Renovation	7	\$90,332	2004 CIP	Jun-06
Post Oak Village Reserve Park Development	5	\$151,998	2004 CIP	Jun-06
TRV I-30 Underpass Parking	9	\$4,992	2004 CIP	Jun.-06
TRV Trinity Park Trail	9	\$30,091	2004 CIP	Jun.-06
Sunset Hills Playground Renovation (CD 4 Unspec.)	4	\$11,700	2004 CIP	Jun.-06
Hallmark Park Tennis Court Renovation (CD 6 Unspec.)	8	\$6,751	2004 CIP	Jun.-06
TRV Trinity River Trailhead Security Lighting	CW	\$4,547	2004 CIP	Jun.-06
Bridge Street Tree Project (CD 4 Unspec.)	4	\$6,824	2004 CIP	Jun.-06
Kingswood Park Shelter (CD 6 Unspec.)	6	\$20,863	2004 CIP	Jun.-06
Creeside Park Security Lighting (CD 6 Unspec.)	6	\$9,839	2004 CIP	Jun.-06
Eugene McCray Community Center Picnic Area (CD 5 Unspec.)	5	\$9,484	2004 CIP	Jun.-06
Tillery Park Playground Renovation (CD 9 Unspec.)	9	\$5,579	2004 CIP	Jun.-06
Fox Run Park Security Lighting (CD 6 Unspec.)	6	\$13,233	2004 CIP	Jun.-06
Trinity Park / Mayfest Area Security Lighting	9	\$68,125	Donation	Jul-06
Chamberlin Park Ballfield Renovation	3	\$150,791	2004 CIP	Jul-06
Service Center Improvements	CW	\$127,575	2004 CIP	Sept.-06
Sylvania Park Ballfield Lighting	4	\$102,408	2004 CIP	Sep-06
Springdale Park Playground Renovation	4	\$84,170	2004 CIP	Sep-06
Bonnie Brae Park Playground Renovation	4	\$82,954	2004 CIP	Sep-06
Total Completed Projects: 44 Projects		\$3,301,054		
FY 2005 Completed Projects	CD	Amount	Source	Date
Crawford Farms Add. - Park Development By Developer	7	\$67,050	PDF	Oct-04
Morningside Park Playground Renovation	8	\$86,479	CDBG	Oct-04
Nature Center Fencing	7	\$121,405	98 CIP	Oct-04
Crossing at Fossil Creek Park Development	2	\$93,861	PDF	Oct-04
Nature Center Levee Restoration	7	\$65,922	98 CIP	Oct-04
Jeff Davis Park Playground Renovation	9	\$85,707	UPARR	Oct-04

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Capps Park Playground Renovation	9	\$89,890	UPARR	Oct-04
Stephens Park Playground Renovation	9	\$87,658	UPARR	Oct-04
Greenbriar Park Playground Renovation	9	\$83,628	UPARR	Oct-04
FWISD Clarke Field - Soccer Field Development	8	\$285,907	GF	Oct-04
McCray Park Shelter Installation	5	\$10,786	CDBG	Nov-04
Pate Park Shelter Installation	5	\$7,459	CDBG	Dec-04
Trader's Oak Park Security Lighting	9	\$2,886	UPARR	Dec-04
McDonald Park Security Lighting	5	\$725	UPARR	Dec-05
Maddox Park Security Lighting	2	\$5,623	UPARR	Dec-04
Meadowbrook Golf Course Pond Dredging	4	\$283,186	GEF	Dec-04
Rosen Park Playground Renovation	2	\$89,626	UPARR	Dec-04
Far Northside Park Playground Renovation	2	\$87,717	UPARR	Dec-04
Arneson Park Playground Renovation	2	\$87,274	UPARR	Dec-04
Crestwood Park Playground Renovation	7	\$88,881	UPARR	Dec-04
Oakland Lake Park Security Lighting	8	\$4,141	UPARR	Jan-05
Sylvania Park Security Lighting	4	\$2,444	UPARR	Jan-05
Little People's Park Security Lighting	6	\$4,507	UPARR	Jan-05
Summerbrook Park Shelter / Water Fountain Installation	4	\$32,400	NPG / PF	Feb.-05
Silver Sage Park Table / Water Fountain Installation	4	\$10,200	NPG / PF	Feb.-05
Worth Heights Park Shelter and Bench Installation	9	\$27,288	NPG / PF	Mar-05
Ridglea Hills Park Security Lighting	3	\$13,080	2004 CIP	Mar-05
Rosedale Plaza Park Security Lighting	5	\$6,940	CDBG	May-05
Jesse D. Sandoval (Linwood) Park Security Lighting	9	\$3,261	UPARR	Jun-05
Greenway Park Security Lighting	8	\$3,483	UPARR	Jun-05
Arneson Park Security Lighting	2	\$1,786	UPARR	Jun-05
Crestwood Park Security Lighting	7	\$2,249	UPARR	Jun-05
Harmon Park Security Lighting	8	\$399,106	CDBG	Jun-05
Northside Park Security Lighting	2	\$7,383	CDBG	Jul-05
Carter Park Security Lighting	8	\$636	UPARR	Jul-05
Rosen Park Security Lighting	2	\$3,512	UPARR	Jul-05
Normandy Place Park Security Lighting	8	\$3,539	UPARR	Jul-05
Centralized Computer Lighting System	CW	\$134,659	2004 CIP	Jul-05
Fire Station Park Security Lighting	9	\$4,492	CDBG	Aug-05
Pate Park Security Lighting	5	\$2,500	CDBG	Aug-05
Far Northside Park Security Lighting	2	\$1,928	UPARR	Aug-05
Fairfax Park Security Lighting	8	\$4,250	UPARR	Sep-05
Total Completed Projects: 42 Projects		\$2,405,454		
FY 2004 Completed Projects	CD	Amount	Source	Date
Ridglea Hills Park Shelter Installation	3	\$9,390	NPG/PF	Nov.-03
Overton Park Water Fountain Installation	3	\$5,078	NPG/PF	Nov.-03
River Trails Park Trail Installation	5	\$7,925	NPG/PF	Nov.-03
Sunset Hills Addition / Alderside Park Development	4	\$166,224	PDF	Jan.-04
Parks at Deer Creek Addition Park Development	6	\$285,413	PDPDF	Jan.-04

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Gateway Park Off Leash Dog Park	4	\$81,147	STF	Mar.-04
Sunset Hills Park Park Improvements	4	\$9,116	NPG/PF	Mar.-04
Rolling Hills Soccer Field Lighting	8	\$146,366	CDBG	Mar.-04
Sunset Park Security Lighting	7	\$8,680	CDBG	Apr.-04
Prairie Dog Park Security Lighting	5	\$7,955	CDBG	Apr.-04
Arrow S Park Security Lighting	7	\$5,674	CDBG	Apr.-04
Buck Sansom Park Ballfield Fencing (CD 2 Unspec.)	2	\$11,907	2004 CIP	May.-04
Fox Run Park Development	6	\$169,500	PDPDF	May.-04
Ridglea Hills Park Parking Improvements	3	\$42,300	PDPDF	May.-04
Meadowwood Park Walk Replacement	8	\$13,890	2004 CIP	May.-04
Highland Hills Park Security Lighting	8	\$3,680	CDBG	May.-04
Eugene McCray @ Lake Arlington Park Security Lighting	5	\$12,759	CDBG	May.-04
Gateway Park Security Lighting	4	\$5,231	CDBG	May.-04
Chisolm Ridge Park (Pulte Homes Add.) Development	2	\$95,665	PDPDF	May. 2004
Marine Creek Linear Park Security Lighting	2	\$4,343	CDBG	July. 2004
Trinity River Trail Extension Phase III (1.8 miles)	CW	\$1,351,985	Grant / S&V	July. 2004
Greenway Park Playground Renovation	8	\$86,036	UPARR	July. 2004
Jesse D. Sandoval (Linwood) Park Playground Renovation	9	\$82,328	UPARR	July. 2004
Pate Park Playground Renovation	5	\$71,983	CDBG	July. 2004
Martin Luther King Park Playground Renovation	5	\$70,634	CDBG	July. 2004
Carter Park North Playground Renovation	8	\$77,508	CDBG	July. 2004
Oakland Lake Park Playground Renovation	8	\$78,684	UPARR	Aug. 2004
Trader's Oak Park Playground Renovation	9	\$90,573	UPARR	Aug. 2004
Sylvania Park Playground Renovation	4	\$80,264	UPARR	Aug. 2004
Eastover Park Playground Renovation	5	\$88,863	UPARR	Aug. 2004
McDonald Park Playground Renovation	5	\$76,446	UPARR	Aug. 2004
Maddox Park Playground Renovation	2	\$90,806	UPARR	Aug. 2004
Little People's Park Playground Renovation	6	\$82,926	UPARR	Aug. 2004
Harmon Park Security Lighting	8	\$7,207	CDBG	Sept. 2004
Meadowwood Park Playground Renovation	8	\$92,367	UPARR	Sept. 2004
Normandy Place Park Playground Renovation	8	\$85,735	UPARR	Sept. 2004
Village Creek Park Playground Renovation	5	\$90,068	UPARR	Sept. 2004
Fairfax Park Playground Renovation	8	\$88,350	UPARR	Sept. 2004
Total Completed Projects: 38 Projects		\$3,785,006		
FY 2003 Completed Projects	CD	Amount	Source	Date
Nature Center Land Acquisition - 8508 Marks Lane	7	\$17,000	LWTF	Oct.-02
Lake Como (West) Shoreline Improvements	7	\$59,688	98 CIP	Dec.-02
Hallmark Park Security Lighting	8	\$10,416	98 CIP	Jan.-03
Hallmark Park Ballfield Lighting	8	\$93,365	98 CIP	Feb.-03
Arnold Park Playground Renovation	9	\$84,421	CDBG	Mar.-03
Daggett Park Playground Renovation	9	\$110,833	Model Block	Mar.-03
Trinity River Trail Extension - Phase I	CW	\$2,444,869	Grant	Mar.-03
West Park Development	7	\$1,351,985	86/98 CIP/GF	Mar.-03
Como Community Center Parking Security Lighting	3	\$9,989	GF	Mar.-03

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Tadlock Park / Bradley Center Parking Security Lighting	8	\$7,891	98 CIP	Mar.-03
Ridglea Hills Park Playground Renovation	3	\$88,104	GF	Apr.-03
Van Zandt Guinn Park Playground Renovation	8	\$70,092	GF	Apr.-03
Nature Center Land Acquisition - 8608 Marks Lane	7	\$134,500	LWTF	Apr.-03
Harmon Park Pedestrian Bridge Installation	8	\$45,757	CDBG	Apr.-03
Marine Park Security Lighting	2	\$6,431	GF	Apr.-03
Sycamore Park Security Lighting	8	\$23,963	GF	May.-03
Quanah Parker Park Security Lighting	4	\$24,569	GF	Jun.-03
Trinity Park Security Lighting	9	\$5,283	GF	Jun.-03
Rockwood Golf Course Greens Renovation	2	\$56,250	GEF	Jun.-03
French Lake Dam Rehabilitation	6	\$296,026	GF	Jul.-03
North Park Phase II Development	2	\$659,100	Grant / GF	Jul.-02
Hallmark Park Soccer Field Improvements	8	\$153,051	98 CIP / GF	Jul.-03
Nature Center Land Acquisition - 8500 Shelby Lane	7	\$13,500	LWTF	Aug.-03
Shackleford Park Trail	8	\$23,085	CDBG	Aug.-03
Stone Creek Park Trail Installation	5	\$52,586	NPF/PF	Aug. 03
North Park Parking Lot Security Lighting	2	\$13,924	98 CIP	Sept.-03
Trinity River Trail Extension - Phase II	CW	\$200,000	Cert. Of Oblig.	Sept.-03
Total Completed Projects: 27 Projects		\$6,056,678		
FY 2002 Completed Projects	CD	Amount	Source	Date
Riverside Park Parking Lot Security Lighting	2	\$10,526	98 CIP	Oct-01
Rodeo Park Parking Lot Security Lighting	2	\$6,225	98 CIP	Oct-01
Marion Sansom Parking Lot Security Lighting	7	\$6,104	98 CIP	Oct-01
Arrow South Parking Lot Security Lighting	7	\$6,302	98 CIP	Oct-01
Riverside NRD Security Lighting	8	\$6,154	98 CIP	Oct-01
Southside NRD Security Lighting	8	\$6,115	98 CIP	Oct-01
Capps Park Security Lighting	9	\$2,637	98 CIP	Oct-01
Hillside Park Security Lighting	8	\$4,985	98 CIP	Nov-01
Rosen Park Security Lighting	2	\$10,027	98 CIP	Nov-01
Trail Drivers Park Security Lighting	2	\$15,946	98 CIP	Jan-02
Collett Park Security Lighting	3&9	\$8,796	98 CIP	Jan-02
Forest Park Security Lighting	9	\$14,721	98 CIP	Jan-02
R.D. Evans Community Center Park Security Lighting	3	\$12,936	CCPD	Jan-02
Sycamore CC Parking Lot Security Lighting	8	\$11,487	98 CIP	Feb-02
Carter Park Parking Lot Security Lighting	8	\$9,804	98 CIP	Mar-02
Oakland Lake Park Security Lighting	8	\$22,224	98 CIP	Apr-02
Summerbrook Park Security Lighting	4	\$2,477	Donation	Apr-02
Silver Sage Park Security Lighting	4	\$6,331	Donation/98 CIP	Apr-02
Diamond Hill CC Parking Lot Security Lighting	2	\$5,882	CCPD	Jun-02
Cobb Park Parking Lot Security Lighting	8	\$8,332	98 CIP	Jun-02
Highland Hills Park Parking Lot Security Lighting	8	\$8,186	98 CIP	Jun-02
Ellis Park Security Lighting	8	\$2,899	98 CIP	Jul-02
Casino Beach Boat Ramp Parking Lot Sec. Lighting	7	\$14,834	98 CIP	Aug-02
Nature Center Parking Lot Security Lighting	7	\$7,876	98 CIP	Aug-02
South Z. Boaz Park Parking Lot Security Lighting	3	\$23,019	98 CIP	Sep-02

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Marine Park Playground Renovation	2	\$77,864	98 CIP	Oct-01
Phase I Louella Bales Baker Park Development	8	\$63,601	98 CIP/ Donation	Jan-02
Gateway Park Trail Repair	4	\$30,527	GF	Dec-01
South Z-Boaz Park Parking Improvements	3	\$143,696	93 CIP	Dec-01
Eugene McCray Community Center Development	5	\$1,574,450	98 CIP/GF/CDBG	Feb-02
Harmon Park Soccer Field Fencing	8	\$26,236	CDBG	Feb-02
Harmon Park Soccer Complex Development	8	\$634,477	93/98 CIP	Feb-02
Sycamore Park Youth Sports Complex	8	\$1,210,432	98 CIP/ CDBG/ DONATION	Mar-02
Rolling Hills Soccer Lighting	8	\$103,105	98 CIP/ Donation	Apr-02
Nature Center Land Acquisition - 8500 Shelby Lane	7	\$125,000	LWTF	Apr-.02
Nature Center Land Acquisition - 8508 Shelby Lane	7	\$30,000	LWTF	Apr-.02
Diamond Hill CC Gym Floor Replacement	2	\$106,511	CDBG / GF	May-02
Nature Center Levee Restoration Design Concept	7	\$19,930	98 CIP	Jun-02
Casino Beach Boat Ramp	7	\$363,208	TPWD/LWTF/9 8 CIP	Jun-02
Arcadia Park (Seneca) Playground Improvements	4	\$102,638	Donation	Jun-02
Sandy Lane Park - Creek Bank Erosion Control / Ballfield Improv.	5	\$392,351	98 CIP / CPRF	Jul-02
Tadlock Park / Bradley Center Renovation	8	\$146,849	98 CIP / CDBG	Jul-02
Nature Center Land Acquisition - 8490 Marks Lane	7	\$25,200	LWTF	Jul-.02
Nature Center Land Acquisition - 8612 Marks Lane	7	\$131,000	LWTF	Jul-.02
Log Cabin Village Parking Lot Renovation	9	\$54,389	98 CIP	Aug-02
North Community Park - North Beach St. Develop.	2	\$365,763	98 CIP	Aug-02
North Community Park Phase I Development	2	\$573,052	98 CIP	Sep-02
Total Completed Projects: 47 Projects		\$6,535,104		
FY 2001 Completed Projects	CD	Amount	Source	Date
Trinity Park Playground Renovation	9	\$40,000	Mayfest	Mar-01
Berney Park Playground Surfacing	3	\$23,368	CIP/GF	Oct-00
Collett Park Playground Surfacing	3&9	\$31,777	78 CIP/CDBG	Oct-00
Little John Park Playground Renovation	5	\$35,060	CDBG	Oct-00
Botanic Garden Security Lighting	7	\$148,499	98 CIP	Apr-01
Foster Park North Trail	3	\$94,820	98 CIP	Feb-01
Pecan Valley "River" Golf Course Renovation	3	\$2,126,595	GEF	Jun-01
North Tri-Ethnic Community Center Reconfiguration	2	\$168,031	CDBG	Jun-01
Riverside Community Center @ Sylvania Park Expansion	4	\$357,944	CDBG	Jul-01
Delga Park Ballfield Development	8	\$71,133	CDBG	Jul-01
Rockwood Park Athletic Field Lighting / Parking Improv.	2	\$684,338	98 CIP	Sep-01
Rolling Hills Athletic Field Development	8	\$1,179,439	98 CIP/CDBG/GF	Sep-01
Greenbriar Park / Kidfish Trail Installation	9	\$27,186	TPWD Grant	Sep-02
Camp Joy Park Parking Lot Security Lighting	7	\$7,582	98 CIP	Sep-01
Casino Beach Park Parking Lot Security Lighting	7	\$2,755	98 CIP	Sep-01
Greenway Park Parking Lot Security Lighting	8	\$9,806	98 CIP	Sep-01

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Lincoln Park Parking Lot Security Lighting	2	\$6,437	98 CIP	Sep-01
Total Completed Projects: 17 Projects		\$5,014,770		
FY 2000 Completed Projects	CD	Amount	Source	Date
Clearfork / Benbrook Bike Trail	CW	\$1,176,098	Grant/Donation / Mayfest	Oct-99
North Community Park Acquisition	2	\$340,115	98 CIP	Dec-99
Oakmont Park Trail	6	\$50,000	98 CIP	Jan-00
McLeland Tennis Center Renovation	9	\$100,000	98 CIP	Mar-00
Arcadia Park North Development	4	\$550,000	TPWD Grant	Jun-00
Z. Boaz Golf Course Cart Trails Installation	3	\$214,471	GEF	Jun-00
Bonnie Brae Park Playground Resurfacing	4	\$31,117	98 CIP	Jun-00
Carter Park Playground Resurfacing	8	\$27,169	98 CIP	Jun-00
Casino Park Playground resurfacing	7	\$29,199	98 CIP	Jun-00
Cobb Park Playground Resurfacing	8	\$33,393	98 CIP	Jun-00
Forest Park (North) Playground Resurfacing	9	\$28,922	86 CIP	Jun-00
Harrold Park Playground Resurfacing	9	\$26,132	98 CIP	Jun-00
Meadowbrook Park Playground Resurfacing	4	\$25,297	98 CIP	Jun-00
Rockwood Park Playground Resurfacing	2	\$31,309	98 CIP	Jun-00
Camelot Park (\$25,000 86 CIP/ \$25,000 98 CIP)	8	\$53,176	86 & 98 CIP	Jun-00
Kristi Burbach Park Development	4	\$25,000	98 CIP	Jun-00
Shackleford Park - Reserve Park Development	8	\$20,182	98 CIP	Jun-00
Ellis Park - Reserve Park Development	8	\$63,475	98 CIP/Donation	Jun-00
Marine Creek Park - Reserve Park Development	2	\$50,000	98 CIP	Jun-00
Smith Wilemon Park - Reserve Park Development	4	\$43,550	98 CIP/Donation	Jun-00
Jennings May St. Louis Park Development	9	\$92,000	CDBG	Jul-00
Como Community Center Renovation	3	\$318,357	CDBG	Aug-00
Overton Park Playground Renovation	3	\$38,616	98 CIP	Aug-00
Candleridge Park Playground Renovation	6	\$24,928	98 CIP	Aug-00
Southwest Park Playground Renovation	6	\$63,234	98 CIP	Aug-00
Westcreek Park Playground Renovation	6	\$59,663	98 CIP	Aug-00
Wright Tarleton Park Playground Renovation	7	\$47,063	98 CIP	Aug-00
Highland Hills Park Playground Renovation	8	\$43,975	98 CIP	Aug-00
Forest Park (Tillery) Playground Renovation	9	\$43,349	98 CIP	Aug-00
Worth Heights Park Playground Renovation	9	\$36,180	98 CIP	Aug-00
Fire Station Park Playground Renovation	9	\$24,000	98 CIP	Aug-00
Diamond Hill Park Playground Renovation	2	\$40,356	98 CIP	Aug-00
Far Northside Park Playground Renovation	2	\$40,634	98 CIP	Aug-00
Lincoln Park Playground Renovation	2	\$41,052	98 CIP	Aug-00
Marine Park Playground Renovation	2	\$39,486	98 CIP	Aug-00
Riverside Park Playground Renovation	2	\$41,504	98 CIP	Aug-00
Terry Park Playground Renovation	2	\$44,880	98 CIP	Aug-00
Eastern Hills Park Playground Renovation	4	\$34,380	98 CIP	Aug-00
Sandy Lane Park Playground Renovation	5	\$47,340	98 CIP	Aug-00
Gid Hooper Park Playground Renovation	8	\$80,442	98 CIP/ CDBG	Aug-00

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Glenwood Park Playground Renovation	8	\$58,884	98 CIP	Aug-00
Lincoln Park Parking Improvements	2	\$60,000	98 CIP	Apr-00
Oakland Lake Park Parking Improvements	8	\$151,661	98 CIP	Sept. -00
Trinity Park Roadway Improvements	9	\$233,898	98 CIP	Aug-00
Trinity Park Shelter Trail Replacement	9	\$36,669	98 CIP	May-00
Candleridge Park Trail Replacement	6	\$73,116	98 CIP	May-00
Foster Park (South) Trail Replacement	3	\$10,000	98 CIP	Jun-00
Meadowwood Park Trail Replacement	8	\$33,447	98 CIP	Jun-00
Oakland Lake Park Trail Replacement	8	\$27,874	98 CIP	Aug-00
Overton Park Trail Replacement	3	\$80,000	98 CIP	Jun-00
Trinity Park Bridge / Trail Replacement	9	\$201,491	98 CIP	Aug-00
Rotary Park Median Walk Replacement	9	\$4,028	98 CIP	Aug-00
Gateway Park Soccer Field Fencing	4	\$34,704	Waste Mang. Fund	Sep-00
Total Completed Projects: 53 Projects		\$5,125,816		
FY 1999 Completed Projects	CD	Amount	Source	Date
Lead Abatement Phase III	CW	\$126,900	CDBG	Oct-98
Lead Abatement Phase VI	CW	\$174,624	GF	Nov-98
Lake Como Park (West) Playground Development	3	\$70,021	CIP	Oct-98
C.P. Hadley Park Playground Development	6	\$28,564	CIP	Oct-98
Lake Arlington Boat Ramp	5	\$264,320	TPWD GRANT/LWTF/ CPRF	Oct-98
North Tri-Ethnic Community Center Security Lighting	2	\$11,437	CDBG	Nov-98
Riverside Community Center @ Sylvania Park Security Lighting	2	\$11,437	CDBG	Nov-98
Martin Luther King Community Center Security Lighting	5	\$11,437	CDBG	Nov-98
Handley Meadowbrook Community Center Security Lighting	5	\$11,437	CDBG	Nov-98
Bertha Collins Community Center Security Lighting	8	\$11,437	CDBG	Nov-98
Highland Hills Community Center Security Lighting	8	\$11,437	CDBG	Nov-98
Greenbriar Community Center Security Lighting	9	\$11,437	CDBG	Nov-98
Thomas Place Community Center Security Lighting	7	\$11,437	CDBG	Nov-98
Arrow S. Park / Lake Worth Boat Ramp Installation	7	\$219,468	Grant/ LWTF	Jan-99
Diamond Hill CC Expansion	2	\$376,359	CDBG	Jan-99
Southwest Community Parking Expansion	6	\$90,000	98 CIP	Jan-99
Rosedale Plaza Park Playground Renovation	5	\$31,180	CDBG	Jan-99
Southwest Community Center Expansion	6	\$767,980	CIP/GFFB	Mar-99
Foster Park Improvements	3	\$79,604	98 CIP	Mar-99
Worth Hills Park Improvements	9	\$33,526	98 CIP	Mar-99
Nature Center Low Water Weir	7	\$86,417	Grant/ LWTF	Apr-99
Sycamore Park Pool Renovation	8	\$120,243	CDBG	May-99
Kellis Park Pool Renovation	9	\$100,000	GF / CPRF	May-99
Martin Luther King Community Center Renovation	5	\$105,442	CDBG	May-99
Trinity Park Security Lighting	9	\$20,000	98 CIP	May-99
Trinity Park Shelter Renovation	9	\$50,000	98 CIP	May-99
Nature Center Roadway Improvement	7	\$102,545	98 CIP	May-99

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Hillside Park Improvements	8	\$168,800	98 CIP/Grant	May-99
Southside Community Center Improvements	8	\$12,200	98 CIP	May-99
Quanah Parker Park Development	4	\$370,041	86 CIP	Jul-99
Southwest Community Park Acquisition	6	\$421,833	86 CIP	Jul-99
Buck Sansom Park Security Lighting	2	\$18,312	98 CIP	Sep-99
Cobblestone Park Security Lighting	5	\$10,546	98 CIP	Sep-99
Mosque Point Park Security Lighting	7	\$8,111	98 CIP	Sep-99
Glenwood Park Security Lighting	8	\$10,346	98 CIP	Sep-99
Sandy Lane Park Security Lighting	5	\$8,772	98 CIP	Sep-99
Jeff Davis Park Security Lighting	9	\$3,005	98 CIP	Sep-99
Rosemont Park Security Lighting	9	\$6,283	98 CIP	Sep-99
Patricia LeBlanc Park Security Lighting	6	\$8,253	98 CIP	Sep-99
Westcreek Park Security Lighting	6	\$7,260	98 CIP	Sep-99
Lake Como Park (West) Security Lighting	3	\$11,394	98 CIP	Sep-99
Total Completed Projects: 41 Projects		\$4,003,845		
FY 1998 Completed Projects	CD	Funding	Source	Date
Trinity Park Playground	9	\$19,790	Mayfest	Apr-98
Sycamore Creek Golf Course Pedestrian Bridge Installation	8	\$112,873	GEF	Apr-98
Pecan Valley Golf Course Pedestrian Bridge Renovation	3	\$143,037	GEF	Apr-98
Arcadia Park Trail South Development	4	\$505,290	Grant	Jun-98
Lead Abatement of Playground Equipment - Phase I	CW	\$135,958	CDBG	Jun-98
Lake Arlington Park Playground	5	\$62,224	CDBG	Jun-98
N. Tri-Ethnic CC Gym Floor	2	\$43,855	CDBG	Jul-98
Worth Heights CC. Gym Floor Replacement	9	\$45,645	CDBG	Jul-98
Pecan Valley GC Pro Shop Renovation	3	\$139,754	GEF	Jul-98
Harvey Street Park Playground Renovation	8	\$24,510	CDBG	Aug-98
Lincoln Park Ballfield Lighting	2	\$105,674	CPRF	Sep-98
Pecan Valley Golf Course Design	3	\$93,000	GEF	Sep-98
Northside Park Playground Renovation	2	\$22,065	CDBG	Sep-98
Total Completed Projects: 13 Projects		\$1,453,675		

APPENDIX G -- PROPERTY MANAGEMENT FY2016 AND FY2017 PROJECT LIST

FY2016 PROPERTY MANAGEMENT CIP UPDATE

The FY2016 Property Management adopted budget included total funding of \$3,921,461 for various PAYG capital projects. The table below provides a breakdown of each budgeted item.

ITEM	Amount
Facility Renovation and Maintenance	\$1,564,500
City Council Chairs (added after budget adoption)	\$118,500
Roof Replacements (M&C G-18738)	\$613,461
Roof Repairs @ Various City Facilities (M&C G-18762)	\$1,000,000
Reallocation of FY2016 Surplus Operating Funds to Capital Projects (M&C G-18828*)	\$400,000
Gordon Swift Window Replacement (M&C P-11922)	\$225,000
TOTAL	\$3,921,461

* The total doesn't include the \$800,000 appropriated for Fire Station 43 Sewer Line

Below is a list of the projects funded in FY2016 with their financial status as of July 2017. A further breakdown of this list showing specific buildings follows.

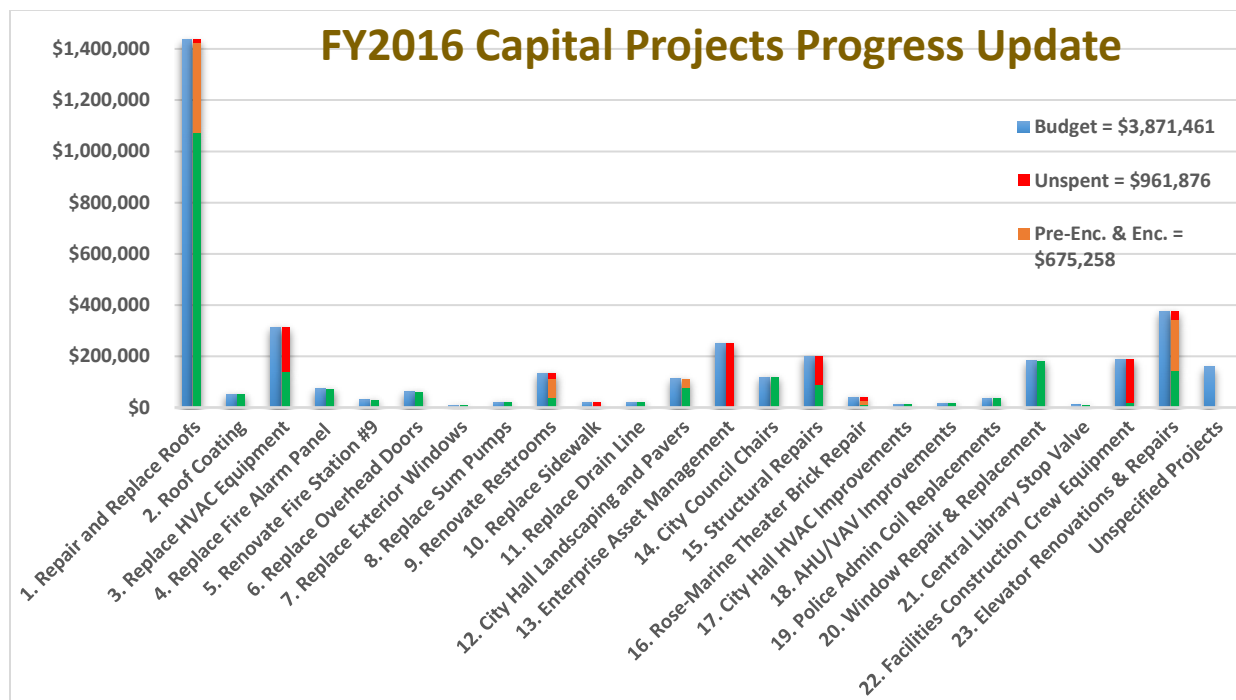
Project	Budget = \$3,871,461	Spent = \$2,234,327	Pre-Enc. & Enc. = \$675,258	Unspent = \$961,876	% Spent
1. Repair and Replace Roofs	\$1,435,880.03	\$1,074,019.29	\$350,000.00	\$11,860.74	74.8%
2. Roof Coating	\$52,438.43	\$52,438.41	\$0.00	\$0.02	100.0%
3. Replace HVAC Equipment	\$313,795.37	\$138,010.88	\$1,956.00	\$173,828.49	44.0%
4. Replace Fire Alarm Panel	\$73,180.00	\$73,180.00	\$0.00	\$0.00	100.0%
5. Renovate Fire Station #9	\$30,138.40	\$30,138.40	\$0.00	\$0.00	100.0%
6. Replace Overhead Doors	\$60,711.79	\$60,711.78	\$0.00	\$0.01	100.0%
7. Replace Exterior Windows	\$9,672.44	\$9,672.44	\$0.00	\$0.00	100.0%
8. Replace Sum Pumps	\$19,973.56	\$19,973.56	\$0.00	\$0.00	100.0%
9. Renovate Restrooms	\$134,429.39	\$40,298.26	\$71,292.10	\$22,839.03	30.0%
10. Replace Sidewalk	\$20,000.00	\$0.00	\$0.00	\$20,000.00	0.0%
11. Replace Drain Line	\$21,023.55	\$21,023.55	\$0.00	\$0.00	100.0%
12. City Hall Landscaping and Pavers	\$112,000.00	\$78,265.93	\$33,753.00	(\$18.93)	69.9%
13. Enterprise Asset Management	\$250,000.00	\$0.00	\$0.00	\$250,000.00	0.0%

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14. City Council Chairs	\$118,500.00	\$118,539.32	\$0.00	(\$39.32)	100.0%
15. Structural Repairs	\$200,000.00	\$89,514.07	\$0.00	\$110,485.93	44.8%
16. Rose-Marine Theater Brick Repair	\$40,000.00	\$9,962.66	\$17,471.00	\$12,566.34	24.9%
17. City Hall HVAC Improvements	\$12,743.00	\$12,743.00	\$0.00	\$0.00	100.0%
18. AHU/VAV Improvements	\$16,350.00	\$16,350.00	\$0.00	\$0.00	100.0%
19. Police Admin Coil Replacements	\$35,541.35	\$35,541.35	\$0.00	\$0.00	100.0%
20. Window Repair & Replacement	\$183,077.32	\$183,077.32	\$0.00	\$0.00	100.0%
21. Central Library Stop Valve	\$10,205.44	\$10,205.44	\$0.00	\$0.00	100.0%
22. Facilities Construction Crew Equipment	\$188,000.00	\$18,638.38	\$0.00	\$169,361.62	9.9%
23. Elevator Renovations & Repairs	\$375,000.00	\$142,022.61	\$200,785.95	\$32,191.44	37.9%
Unspecified Projects	\$158,800.72	\$0.00	\$0.00	\$158,800.72	0.0%
TOTAL	\$3,871,461*	\$2,234,327	\$675,258	\$961,876	58%

* \$50,000 of FY2016 appropriation was reprogrammed as part of FY2017 projects.



FY2016 FACILITY PROJECTS IMPLEMENTATION PLAN

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Project Description	Amount	Complete
Facility Renovation and Maintenance	\$1,564,500	
Annex Fire Alarm Panel Replacement	\$100,000	x
Fire Station 9 Renovation	\$30,138	x
Fire Station 35 and Fire Station 3 Replace Overhead Doors	\$57,300	x
R D Evans CC Replace Exterior Windows	\$12,000	x
Municipal Courts Replace Sump Pumps	\$19,974	x
City Hall (2nd Floor) Renovate Restrooms	\$34,429	x
Hazel Harvey Peace Replace Sidewalk and Approach	\$20,000	
Municipal Courts Replace Drain Line	\$11,612	x
City Hall Landscaping	\$30,000	
Facilities Work Order Mgmt System	\$250,000	
Municipal Courts HVAC	\$14,000	x
Animal Control HVAC	\$14,000	x
MLK CC HVAC	\$41,000	
Fire Station 19 HVAC	\$5,500	x
Fire Station 31 HVAC	\$5,500	
Meadowbrook Library HVAC	\$1,500	
Southwest CC HVAC	\$55,000	
Diamond Hill CC HVAC	\$37,000	
Gordon Swift Replace HVAC Controls	\$120,000	
Gateway Park HVAC	\$19,000	
Structural Repairs: - Highland Hills Community Center - Fire Equipment Services Facility - Hazel Harvey Peace Center for Neighborhoods - Riverside Community Center - North Tri-Ethnic Community Center	\$250,000	
Rose-Marine Theater Repairs	\$40,000	x
City Hall HVAC Improvements	\$12,743	
Municipal Complex AHU/VAV Improvements	\$16,350	
Gordon Swift Elevator Repairs	\$175,000	
Police Admin Coil Replacements	\$37,000	
Fire Station 30 HVAC Replacement	\$15,000	
Fire Air Shop Replace Drain	\$9,411	x
S Annex (Zipper Bldg.) Window Repair	\$4,000	x
Central Library Stop Valve	\$10,205	x
Botanic Garden Replace HVAC	\$7,000	x

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Remaining Funds to be assigned	\$109,837	
City Council Chairs	\$118,500	x
Roof Replacements	\$1,613,462	
Ridglea Library Roof Replacement	\$202,522	x
Fire Station 4 Roof Replacement	\$36,711	x
Fire Station 18 Roof Replacement	\$100,000	x
Northside CC Roof Coating	\$12,655	x
Diamond Hill CC Roof Coating	\$5,000	x
Meadowbrook Library Roof Coating	\$4,900	x
Wedgwood Library Roof Coating	\$5,016	x
Diamond Hill Library Roof Coating	\$4,995	x
South Police Roof Coating	\$19,775	x
Fire Station 6 Roof Replacement	\$110,000	
Old Fire Station 11 (Air Shop) Roof Replacement	\$110,000	
North Tri-Ethnic Roof Replacement	\$300,000	
Fire Station 2 Roof Replacement	\$300,000	
Fire Investigations Roof Replacement	\$110,000	
IT Transmitter Site 11th Ave Roof Replacement	\$25,000	
Thomas Place CC Roof Replacement	\$65,000	
PARD Brennan St. Service Center Roof Replacement	\$85,000	
Municipal Complex Restroom Renovations	\$100,000	
Remaining Funds to be assigned	\$16,888	
Reallocation of FY2016 Surplus Operating Funds to Capital Projects	\$400,000	
Gordon Swift Roof Replacement (HVAC Repairs)	\$12,000	
Construction Crew Equipment	\$188,000	
City Hall Elevator Renovation	\$200,000	
Gordon Swift Window Replacement	\$225,000	\$225,001
FY2016 Total Appropriation	\$3,921,461	

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FY2017 PROPERTY MANAGEMENT CIP UPDATE

The FY2017 Property Management adopted budget included total funding of \$7,294,234 for various PAYG capital projects. The table below provides a breakdown of each budgeted item.

ITEM	\$\$\$
Structural, GS HVAC, Fire Alarm Panels, Parking Lots Repairs	\$1,900,000
Roof Repair and Replacement	\$869,234
Minor Repair and Renovation - Facility Assessment and City Hall Exterior Improvements	\$425,000
TOTAL	\$3,194,234
Community Centers and Libraries (Chesapeake Litigation Settlement – M&C G-18792)	\$900,000
Police Facilities and Renovations (M&C L-16018)	\$3,200,000
GRAND TOTAL	\$7,294,234

Below is a list of the projects funded in FY2017 with their financial status as of July 2017. A further breakdown of this list showing specific buildings follows.

Project	Budget = \$7,344,234	Spent = \$812,117	Pre-Enc. & Enc. = \$1,689,147	Unspent = \$4,842,970	% Spent
1. Repair and Replace Roofs	\$869,234.00	\$633,939.29	\$207,648.00	\$27,646.71	72.9%
2. Replace HVAC Equipment	\$1,300,000.00	\$0.00	\$77,000.00	\$1,223,000.00	0.0%
3. Replace Fire Alarm Panel	\$200,000.00	\$25,109.00	\$166,900.00	\$7,991.00	12.6%
4. Structural Repairs	\$200,000.00	\$68,035.67	\$130,215.23	\$1,749.10	34.0%
5. Parking Lot Repairs	\$150,000.00	\$0.00	\$0.00	\$150,000.00	0.0%
6. Elevator Renovations & Repairs	\$300,000.00	\$0.00	\$0.00	\$300,000.00	0.0%
7. Fire Station CC ADA ramp	\$10,000.00	\$0.00	\$0.00	\$10,000.00	0.0%
8. MLK CC Gym Divider	\$15,000.00	\$0.00	\$0.00	\$15,000.00	0.0%
9. Flooring	\$430,000.00	\$0.00	\$420,000.00	\$10,000.00	0.0%
10. Counters & Kitchen Renovation	\$45,000.00	\$0.00	\$0.00	\$45,000.00	0.0%
11. Clinic Remodel	\$100,000.00	\$293.29	\$0.00	\$99,706.71	0.3%
12. Enterprise Asset Management	\$350,000.00	\$0.00	\$0.00	\$350,000.00	0.0%
13. City Hall Exterior Improvements	\$75,000.00	\$75,000.00	\$0.00	\$0.00	100.0%
14. 350 Basement Design	\$950,000.00	\$391.44	\$463,642.45	\$485,966.11	0.0%

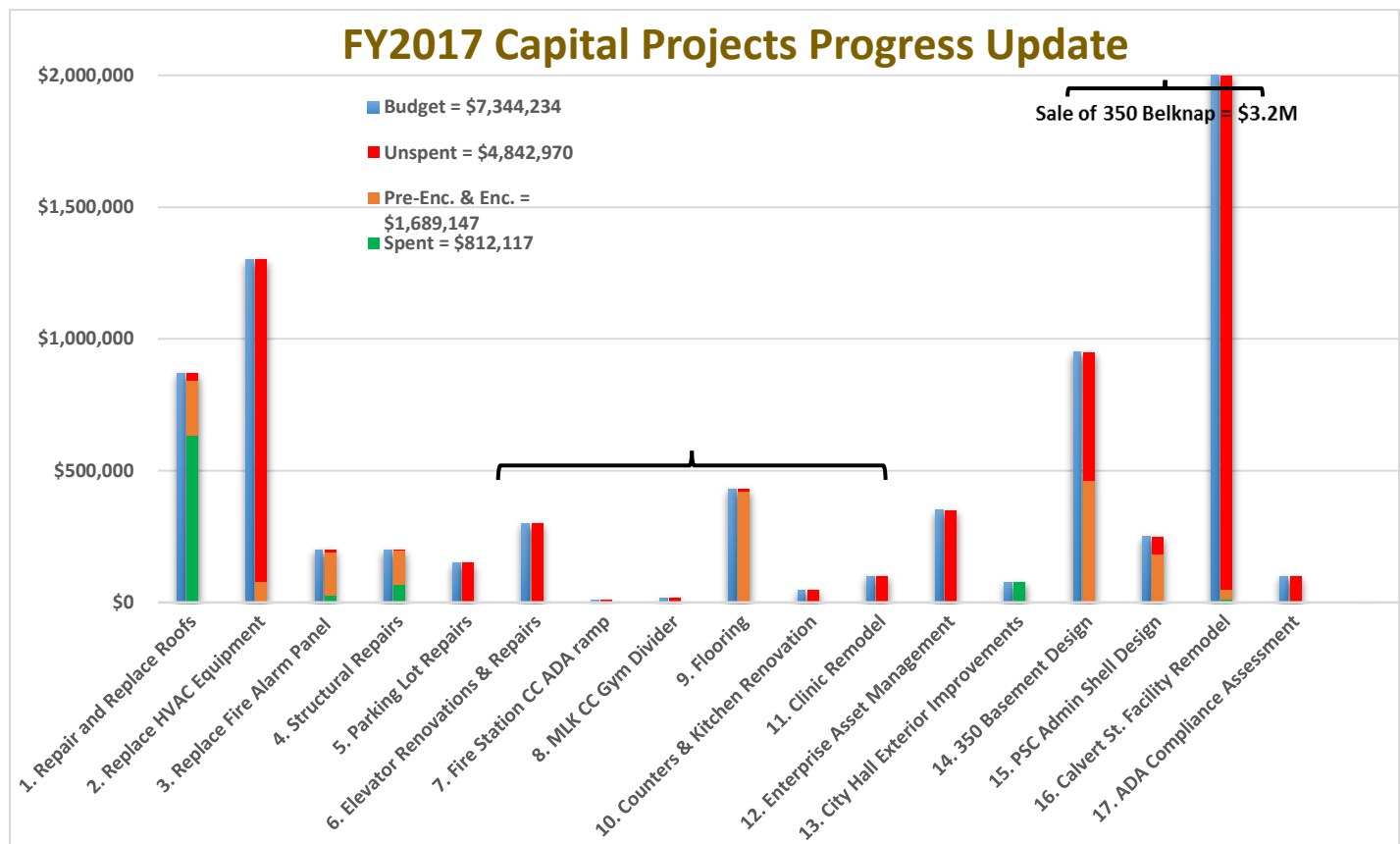
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15. PSC Admin Shell Design	\$250,000.00	\$0.00	\$183,389.21	\$66,610.79	0.0%
16. Calvert St. Facility Remodel	\$2,000,000.00	\$9,348.33	\$40,351.67	\$1,950,300.00	0.5%
17. ADA Compliance Assessment	\$100,000.00	\$0.00	\$0.00	\$100,000.00	0.0%
Unspecified Projects	\$0.00	\$0.00	\$0.00	\$0.00	0.0%
TOTAL	\$7,344,234*	\$812,117	\$1,689,147	\$4,842,970**	11%

* \$50,000 of FY2016 appropriation was reprogrammed as part of FY2017 projects

** \$3.2m of the “unspent amount” is related to M&C L-16018 approved by City Council on 3-28-2017



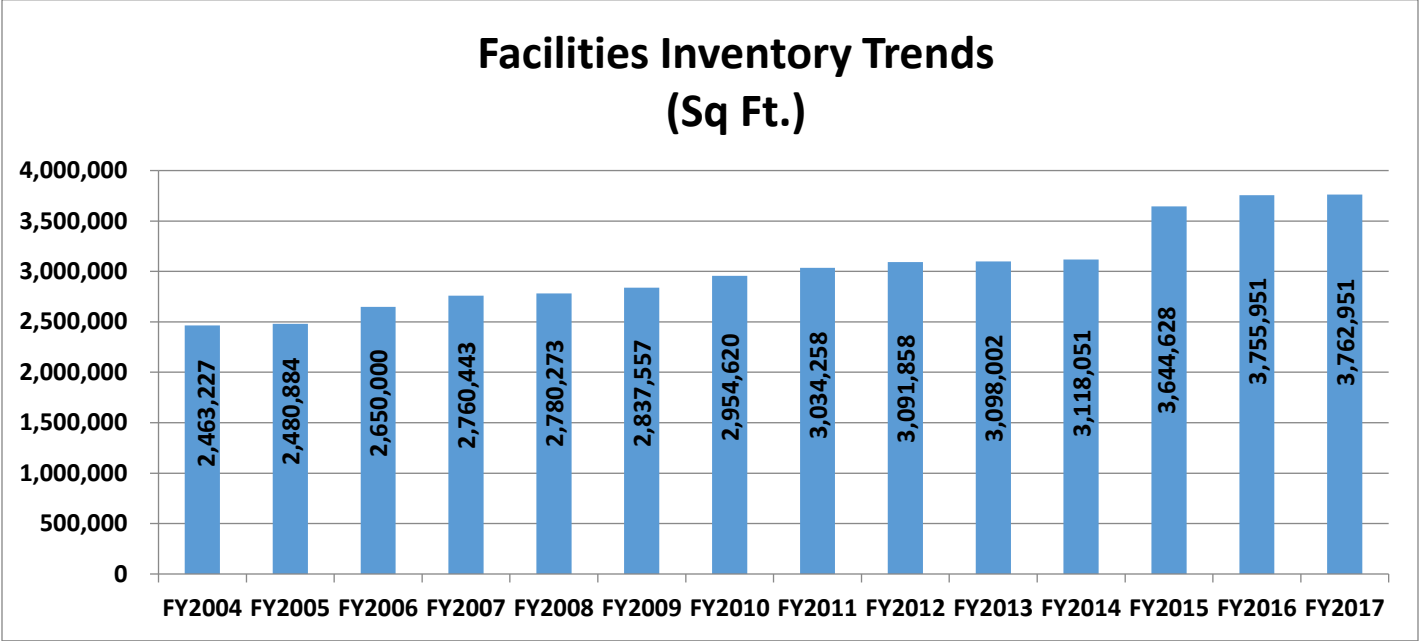
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FY2017 FACILITY PROJECTS IMPLEMENTATION PLAN

Project Description	Amount
Structural, GS HVAC, Fire Alarm Panels, Parking Lots Repairs	\$1,900,000
Gordon Swift HVAC Replacement	\$1,300,000
Structural Repairs Citywide: - Fire Station 25 - Fire Station 14 - Southside Community Center - City Hall Tunnel	\$250,000
City Hall & Worth Hts CC Replace Fire Alarm Panels	\$200,000
Parking Lot Repairs	\$150,000
Community Centers and Libraries	\$900,000
Fellowship Corner Install Elevator	\$300,000
MLK CC Gym Divider	\$15,000
Fire Station CC ADA Ramp	\$10,000
Replace Flooring: - Southwest Regional Library - East Regional Library - Riverside Branch Library - Diamond Hills-Jarvis Branch Library	\$420,000
Fire Station CC Renovate kitchen	\$10,000
North Tri Ethnic CC Remodel Clinic	\$50,000
Southside CC Remodel Clinic	\$50,000
Doc Session CC Replace Front Counter	\$10,000
Greenbriar CC Replace Front Counter	\$25,000
Fire Station CC Replace Multipurpose Room Floor Tile	\$10,000
Roof Repair and Replacement	\$869,234
Roof Repair and Replacements: - Riverside CC - Fire Station 15 - Cowtown Coliseum Ticket Office - Handley-Meadowbrook CC - Highland Hills CC	\$869,234
Minor Repair and Renovation	\$425,000
Facility Inventory Assessment	\$350,000
City Hall Exterior Improvements	\$75,000
Police Facilities and Renovations M&C L-16018	\$3,200,000
Calvert St. Facility Remodel	\$2,000,000
PSC Admin Shell Design	\$250,000
350 Basement Design	\$950,000
FY2017 Total CIP Appropriation	\$7,294,234

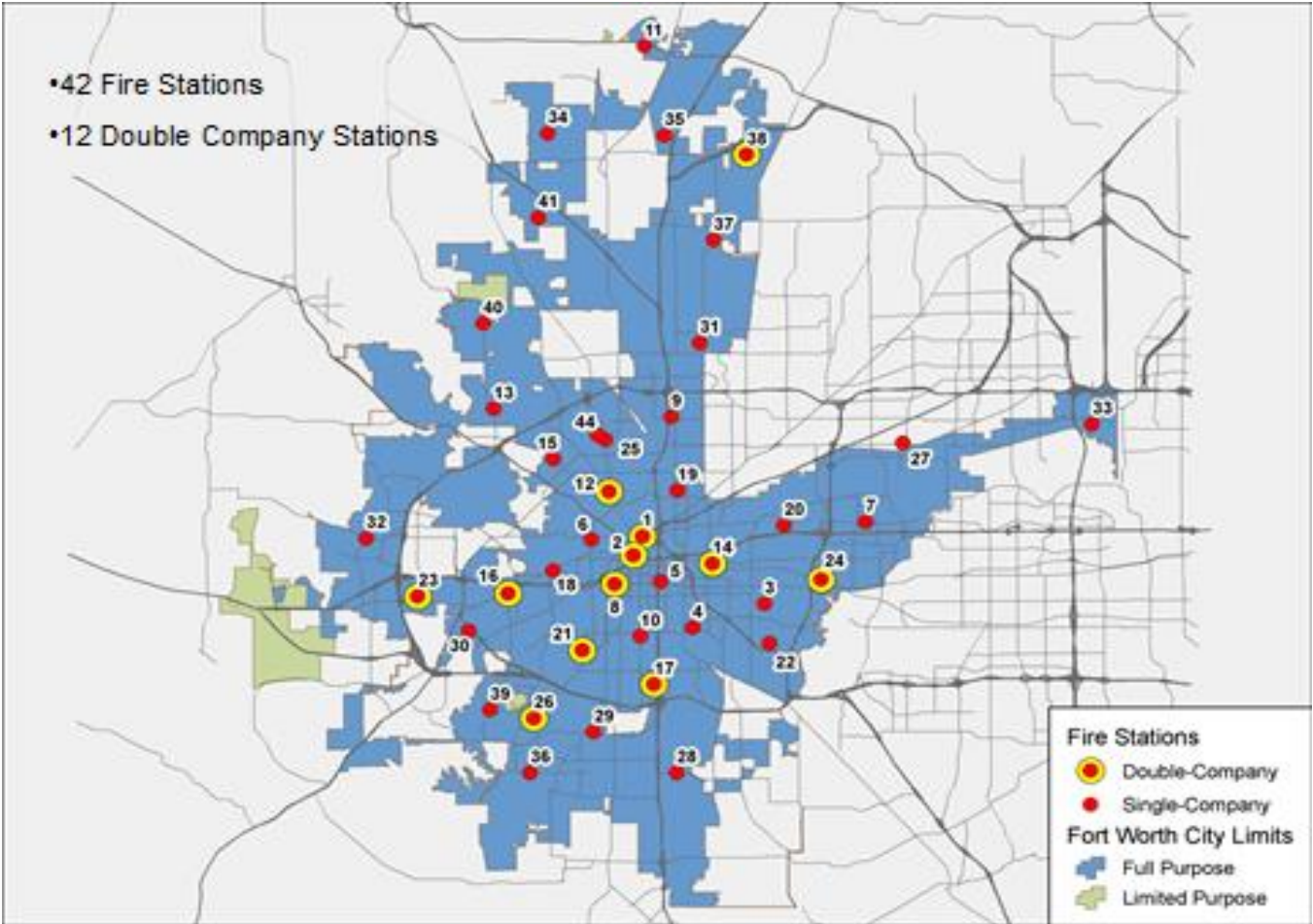
Facility Inventory



- 53% increase since FY2004

APPENDIX H – FREE STATION LOCATIONS/TYPE AND RESPONSE TIMES

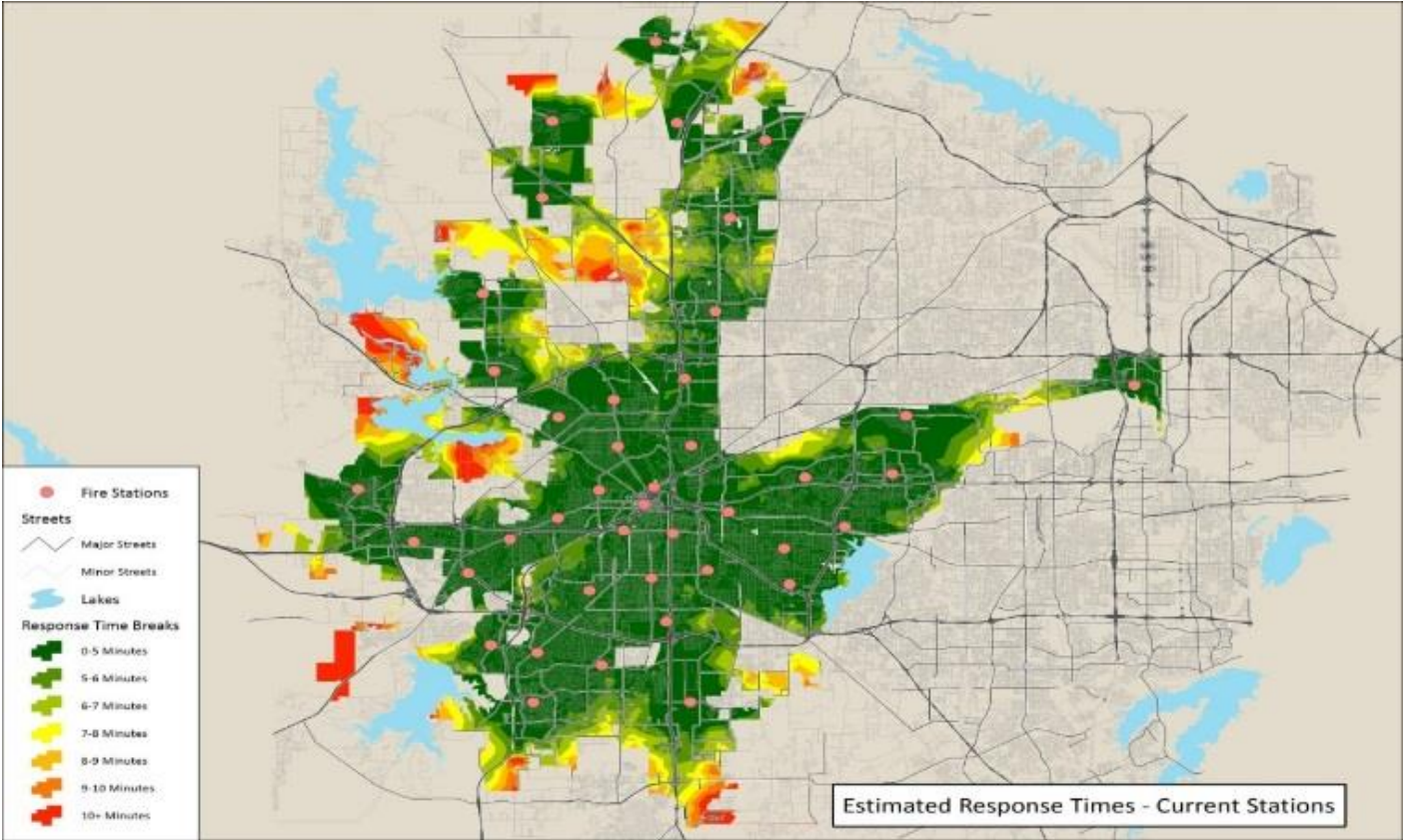
Map: Current Fire Stations by Location and Type



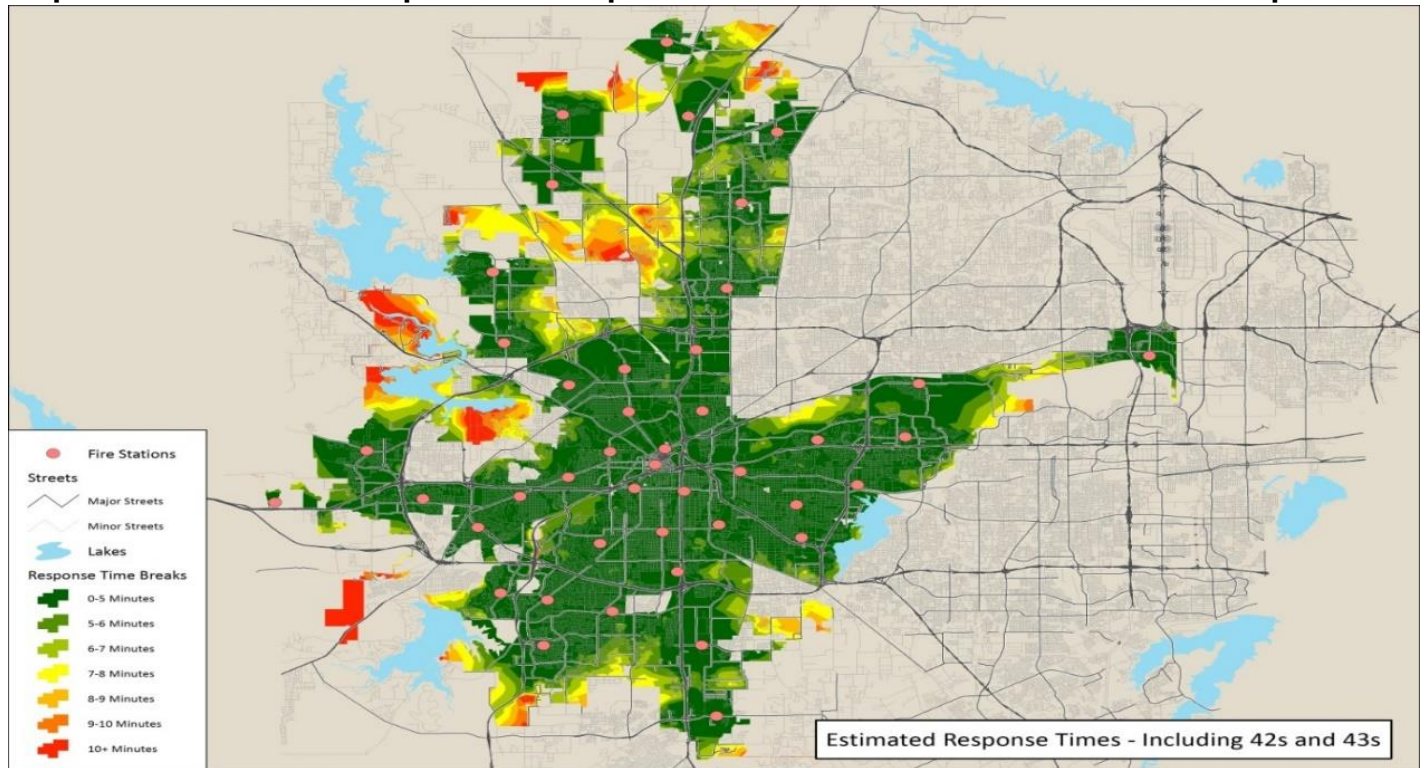
Response Time Considerations

Map #2 shows estimated current Fire Department response times throughout the city utilizing GIS mapping tools. Map #3 indicates estimated Fire Department response times after fire stations 42 (in far south Fort Worth) and 43 (in far west Fort Worth) are operational.

Map #2 Current Fire Department Response Times



Map #3 Estimated Fire Department Response Times when Stations 42 and 43 are Operational



As visible in Map #3, the far south and far west areas of the city that in Map #2 indicated were a challenge to meet the five minute response goal are now green indicating 0-5 minute response times.

The orange and red areas in the northwest portion of the city (near Lake Worth and Eagle Mountain Lake) are primarily low-density vacant properties so immediate attention to these areas is not warranted. The yellow, orange and red areas to the north are growth areas. The additional station noted above for the far north near the US 287/IH-35W split will improve response times in these areas.