City of
Brentwood
Tennessee

Capital Improvements Program
FY 2018-2023

DRAFT

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2018-2023

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City Manager

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Assistant City Manager

Richard Parker
Finance Director

DRAFT

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INTRODUCTION

REGINA SMITHSON
MAYOR
JILL BURGIN
VICE-MAYOR
KIRK BEDNAR
CITY MANAGER

City of Brentwood

COMMISSIONERS
BETSY CROSSLEY
ANNE DUNN
MARK W. GORMAN
RHEA E. LITTLE, III
KEN TRAVIS

March 27, 2017

CITY MANAGER MEMORANDUM

2017-03

TO: Honorable Mayor and Members of the City Commission

FROM: Kirk Bednar, City Manager KB

SUBJECT: Proposed Fiscal Years 2018-2023 Capital Improvements Program

Attached you will find the proposed six-year capital improvements program (CIP) for the City of Brentwood for fiscal years 2018-2023.

The proposed CIP will be reviewed with the Board of Commissioners at a work session scheduled for Tuesday, April 4, 2017, beginning at 4:00 PM in the Municipal Center Annex Room. The staff will review each project and seek initial guidance and direction on the appropriateness and priorities in the program. Afterwards, the CIP will be circulated in the community for citizen review and comments. Formal public hearings are scheduled at three City Commission meetings on Monday, May 22, 2017, Tuesday, June 13, 2017, and Monday, June 26, 2017. A resolution to adopt the six-year CIP will be presented to the City Commission for consideration and adoption at the June 26, 2017 meeting.

The primary focus of this six-year program is to identify and address the infrastructure and facility/equipment needs of the community and to enhance our competitive position with the improving local, state, and national economy. Brentwood is recognized nationally as a desirable community to live, work, and do business in the Nashville/Middle Tennessee area. Existing and potential residents and corporate citizens have a choice in where they live or locate their business. In this competitive environment, it is essential that the City undertake or facilitate projects that help maintain and improve our favorable quality of life. The real challenge is to proactively undertake needed capital projects in a fiscally responsible manner. Accordingly, consideration and approval of this six-year CIP program by the City Commission represents one of the most important actions taken by the Board each year.

Over the past 20+ years, Brentwood has invested considerable resources in developing and enhancing important community resources. Our citizens widely use, benefit from, and depend on these investments. For Brentwood, the CIP remains a "work in progress" with important projects and unmet needs that warrant funding consideration during the next six years. Examples include road projects that improve safety and reduce congestion for drivers; enhancements to our utility systems that improve the reliability and capacity to deliver services to existing and future customers and protect the environment; and new park development that expands recreational opportunities for youth and adults. While the program presented here is a six-year program, the plan is a living document with only the first year fully committed as part of the FY 2018 budget. The plan is updated every year, and projects in years two through five may be added, deleted, or changed in terms of scheduling in future updates of the plan.

Summary Overview

The proposed FY 2018-2023 Capital Improvements Program is an ambitious plan that calls for the investment of **$138,440,000** in City, State, Federal, and private funds to upgrade and expand the City's infrastructure in the major program areas of transportation, utilities, parks and recreation, general facilities and equipment, technology, and storm drainage. A program of this magnitude cannot be undertaken with local resources alone; therefore, local funding is being used to strategically leverage state and federal aid to the program, particularly for transportation improvements. About **$43 million** of the **$138** million program (31%) is dependent upon receipt of inter-governmental revenues (state and federal), targeted mostly to the improvement of Franklin Road and annual street repaving over the next six years.

The net local investment of **$95.4 million** over six-years will require a significant funding commitment, including direct support of over **$91.5 million** on a "pay as you go basis," primarily from the General Fund and other funds that depend on annual contributions from the General Fund. The dependent funds that receive most of their revenue from the General Fund include, but are not limited to, the Capital Projects Fund, Equipment Replacement Division, and Facilities Maintenance Division. The Capital Projects Fund also receives periodic contributions from the proceeds of recently issued General Obligation (G.O.) bonds and proceeds from Public Works Project Fees and Adequate Facilities Taxes for specific capital projects. Private contributions are also received for specific capital projects such as offsite road improvements that benefit new development. The Water and Sewer Fund also makes direct expenditures from its annual operating budget, accumulated retained earnings, and tap fees for various water and sewer system improvements.

The proposed CIP program cannot be implemented without the issuance of new General Obligation Bonds totaling **$4.9 million** proposed in FY 2018. While no additional bond issues are currently forecasted over the remaining five years of the CIP, the City's debt service financial model indicates that an additional $9.8 million in G.O. bonded debt capacity exists over this time period should additional significant capital projects be identified in future CIP updates. Examples of future projects that could require debt financing include a potential Police

headquarters facility, a significant road improvement project, or a land acquisition opportunity for parks and greenspace. The six-year CIP plan does not include issuance of any Water/Sewer Bonds. The associated annual debt service with the proposed G.O. Bonds is projected to not require a property tax increase.

Total project costs in the major program areas over the next six years (FY 2018-2023) are summarized below:

Transportation	$78,335,000	56.6%
Utilities	35,670,000	25.8%
Facilities & Equipment	11,820,000	8.5%
Technology	9,500,000	6.8%
Parks & Recreation	2,765,000	2.0%
Storm Drainage	350,000	0.3%
TOTAL	$138,440,000	100.0%

Transportation improvements are the largest component in the six-year program. Proposed projects will address safety concerns associated with substandard narrow roads and provide additional capacity to help reduce existing and future traffic congestion. The single largest project in the six-year plan involves improvements to Franklin Road South to five lanes from Concord Road to south of Moore's Lane, with an updated cost estimate totaling over $37 million with over $36 million of this cost being direct state funding for construction and a portion of the City's utility relocation costs.

In the Franklin Road project, the City has assumed responsibility for engineering design and right-of-way acquisition costs, subject to TDOT paying for utility relocations and construction costs. This project is expected to bid by summer of 2017 and begin construction shortly thereafter. Unfortunately, the scope of this project means that construction will likely take a minimum of three years to complete, possibly more. TDOT continues to face serious budget limitations and is unable to fund all the road construction needs across the State from the revenue generated from the current State and Federal gasoline tax with continued uncertainty at this point about new revenue from the state. Unfortunately, a TDOT commitment to financially participate in any future improvement projects on other state routes such as Wilson Pike between Concord and Church Street is highly unlikely in the foreseeable future.

Significant local funding ($10.9 million) is allocated over the next three years for two related projects along Sunset Road. The first project that will get underway in spring of 2017 is the realignment of the Sunset Road and Ragsdale Road intersection to eliminate serious safety issues related to the horizontal and vertical curves leading into this intersection. The project includes both road widening and bridge improvements to sections of Sunset and Ragsdale roads. The second project will begin where the first project ends and widen Sunset Road north all of the way to Concord Road. For the first time, the six-year plan includes significant funding ($9.6

million) projected to be provided to the City of Franklin in FY 2021 to initiate construction on the McEwen Drive extension east of Wilson Pike through the Taramore subdivision.

The City will maintain a significant commitment to street resurfacing over the six-year period in the total amount of $13.2 million. The FY 2018 proposed resurfacing funding level of $2.2 million reflects no increase in base funding over FY 2017. Projected funding levels over the six-year plan reflect continuation of the $2.2 million annual funding amount. While the potential exists for future additional funding for resurfacing being provided through a new transportation funding plan that could be approved by the state this legislative session, no projections are being included until a final plan is approved. Absent additional state funds, fully funding the street resurfacing plan over the six year CIP period will require annual direct transfers of $300,000 from the General Fund to the Capital Projects Fund.

The proposed six year **Utilities** program continues the shift from rehabilitation of the original sewer system to long-term capacity planning for both the water and sewer systems. From a water service standpoint, the City faces the continuing challenge of having to significantly overbuild its distribution system in order to be able to satisfy summer irrigation system demands. This unbalanced seasonal demand has resulted in the City's primary water supplier, Harpeth Valley Utility District, adjusting the City's minimum bill obligations to a point where the new monthly minimum bill volume will be greater than the actual volume of water needed during most months of the year. The six-year plan provides for an $11.2 million investment to expand the capability of the system to distribute water to our customers throughout the service area. This investment in the overall water distribution system should position it to handle the peak summer demands in the immediate future and when build-out occurs in our water service area. However, such a commitment does come with some risk should factors outside the City's control (i.e. weather, state mandated water use restrictions, etc.) result in reductions in summer peak demand and associated revenues. In addition to water capacity projects, the six-year plan also invests heavily ($4.4 million) in the replacement of aging water system infrastructure.

Now that the heaviest phase of sewer rehabilitation work is over, the focus is shifting to sewer system capacity improvements as identified in the sewer system master plan. This includes sub-basin conveyance and system-wide capacity projects to insure the sewer system can adequately serve the community as build out of the service area progresses. A total of $9.5 million is programmed over the six year CIP period for sewer capacity projects, including a proposed wet weather sewage storage tank adjacent to the Brentwood pump station. Note that funding for these capacity related improvements is projected to come entirely from sewer tap fees collected from new development projects over the past several years and in the future.

The primary focus of the **General Facilities and Equipment** program over six years will be the ongoing effort to accumulate funding annually for the periodic replacement and upgrade of essential vehicles and heavy equipment. This systematic approach will allow for over $6.0 million in vehicles and equipment (costing more than $40,000 per unit) to be replaced over the next six years. This reserve allows us to avoid an adverse budgetary impact in a single year.

New funding ($200,000) is programmed for detailed space utilization analysis and preliminary site investigation related to a potential new Police department facility. This additional information and cost estimates are intended to allow the City Commission to make a final decision about moving forward with this project. Funding ($1,070,000) is also provided for development of a parks operation facility that would consolidate both Parks Department office functions and some maintenance and storage functions

Funding is programmed in the Municipal Center enterprise fund for continued upkeep and improvement of the 30-year-old city hall facility, including roof replacement in FY 2018. Annual funding from the Facilities Maintenance Fund is also programmed throughout the six-year period to assure proper upkeep of various city facilities. Major projects programmed within this fund over the six-year plan include repaving of the Service Center maintenance yard and replacement of the Library roof, both in FY 2018. Finally, $1.3 million remains in reserve for possible public infrastructure improvement in the Town Center area as may be deemed appropriate in coordination with redevelopment of the original Town Center area.

The **Technology** program emphasizes the replacement and upgrade of computer hardware and software and other state of the art equipment that allows our employees to continue to deliver services in a responsive, cost effective manner. About $2.5 million is allocated for computer equipment and hardware upgrades and replacements over six years. Significant funding of almost $5.5 million is programmed over the first two years of the plan for the City's share of the cost for implementation of a countywide 700 megahertz radio system that would allow all public safety agencies in Williamson County and the county school system to communicate on the same system. This system is proposed to be interconnected with the Metro Nashville 800 MHz radio system to provide even greater regional communications interoperability. This $5.5 million amount includes $800,000 for the proposed replacement of all non-public safety radios (i.e. Public Works, Water Services, etc.) with radio capable of operating on the new system once it is fully operational in FY 2019. Finally, funding in the amount of $500,000 is also provided in FY 2020 for the potential upgrade or replacement of the City's general ledger and HR software systems which will be 15 years old at that point.

Over the past several years, the City has made a major commitment toward the acquisition and development of new park land including the purchase and Phase 1 development of the 400 acre Marcella Vivrette Smith Park, the developer funded construction of the 24 acre Margaret Hayes Powell Park, and construction of Wikle and Flagpole parks completed in fall of 2016. The **Parks and Recreation** program over the next six years includes completion of Phase 2 improvements at Smith Park in early FY 2018 as well as significant funding ($910,000) for proactive major maintenance projects within existing park facilities.

FINANCING REQUIREMENTS

As noted earlier, almost $91.5 million (66%) of the six-year program will be funded from local sources on a "pay-as-you-go" basis. Next, inter-governmental funding sources will cover $43

million or 31%. The remaining funds ($3.9 million or 2.8%) will come through the issuance of General Obligation Bonds.

FY 2018 funding for several projects is dependent upon a proposed FY 2017 year-end transfer of current year excess revenues in the amount of $3,150,000 from the General Fund to the Capital Projects Fund and $45,000 from the General Fund to the Equipment Replacement Fund. Note that actual FY 2017 General Fund excess revenues are expected to be greater than the $3,195,000 referenced above. It is recommended that the projected excess revenue amount above $3,195,000 also be transferred to the Capital Projects Fund and held in reserve for future capital funding needs.

The implementation of a six-year, comprehensive program with long-term benefits will require the issuance of **$4.9 million** in new 20-year General Obligation Bonds for the Sunset Road at Ragsdale Road intersection project. Note that the six-year plan reflects $1 million of this bond issue being used to reimburse costs incurred in FY 2017. The City's debt service financial model shows that the City could support up to an additional $9.8 million in General Obligations bonds over the remainder of the six-year plan without an increase in the City's annual contribution to the Debt Service Fund. While no projects are currently programmed that would require the issuance of additional debt, a decision to move forward with a new Police headquarters facility or other unplanned project of a similar scale would likely require utilization of a significant portion of this remaining debt capacity.

With the adoption of the new water and sewer rate structure effective August, 2016 and the new financial policies related to segregation of water and sewer tap fees and minimum retained earnings balance, the six-year Utilities capital program is projected to be funded without the need for additional debt financing. Note, however, that with water and sewer revenues heavily weather dependent, fluctuations in these multi-year projections could occur in future updates of the capital improvements plan.

The following memo from Richard Parker, Finance Director, addresses the financial implications associated with the issuance of debt and the appropriate timing for the bond issues to meet the requirements of this program. The proposed General Obligation Bonds will be issued in accordance with the City's adopted Debt Management Policy with a maximum limit of 20 years to retire the bonds and in total issue amounts not to exceed $10 million in any given year (bank qualified debt).

Proposed future debt issues, in order of issuance, include the following:

Fiscal year 2018 (issued by late calendar year 2017):

- G.O. bonds **($4,900,000)** for construction of improvements at the Sunset Road and Ragsdale Road intersection.

As noted above, no additional General Obligation or Water and Sewer bond issues are currently projected for the remainder of the six-year plan. However, future decisions regarding initiation of significant capital projects and/or significant fluctuations in revenue due to economic conditions or weather conditions could require consideration of debt financing for completion of projects.

The City of Brentwood currently has the highest possible bond rating from two major rating agencies - Moody's Investors Service **Aaa** and Standard and Poor's **AAA.** The City is in an excellent financial position to issue the above G.O. bonds over the next 6 years. This capital improvements program as well as the formulation of the annual operating budget is designed to maintain and protect the City's excellent credit rating.

The City takes a very conservative approach to the issuance of General Obligation Bonds. The new General Obligation bond issues from FY 2018 to FY 2023 will have minimal impact on the City's future operating budgets and property tax rate. Debt service for any existing or future Water/Sewer bonds will be funded through current income.

By formal policy, the City strives to maintain an unreserved fund balance in the Debt Service Fund equal to one year's debt service obligation. The General Obligation debt service payment (principal and interest) for FY 2017 is $2,966,300. In addition to this scheduled payment, the City elected to pay off the remaining balance of the 2006 Refunding Bonds which were callable. This payment of approximately $1.6 million was made from the available fund balance in the Debt Service Fund. With these two payments, the projected fund balance for the Debt Service Fund as of June 30, 2017 is $1,966,700, which is below the one-year target level as previously discussed with the Board. The proposed FY 2018 General Fund transfer to the Debt Service Fund will be $2,950,000, the same as in FY 2017.

Looking ahead over the remaining five years of the CIP and based on current interest rate projections, the General Fund should be able to maintain the annual transfer to the Debt Service Fund at or close to the $2,950,000 level proposed for FY 2018. The amount of the transfer will be reviewed annually and may need to be adjusted based on a variety of factors outside the City's control including interest rates, bond market fluctuations, etc.

Finally, the percentage of the total budget allocated for debt service in FY 2017 is approximately 8.2%. This amount of annual debt service is considered by the rating agencies to be a manageable level for a growing community. Assuming a conservative 3% budget growth from FY 2018 through FY 2023 with the Debt Service Fund transfer remaining flat at $2,950,000, this percentage will decrease to 6.8% in FY 2023.

CLOSING

I am very appreciative of the work and effort by various department heads in preparation of this six-year capital improvements program. Special recognition is given to Jay Evans, Assistant City Manager, for his assistance in the research and preparation of this document, and his continued efforts in streamlining the preparation process. This effort allows staff to focus its time and effort better on identifying and analyzing complex infrastructure projects and the associated financial considerations.

REGINA SMITHSON
MAYOR
JILL BURGIN
VICE-MAYOR
KIRK BEDNAR
CITY MANAGER

City of Brentwood

COMMISSIONERS
BETSY CROSSLEY
ANNE DUNN
MARK W. GORMAN
RHEA E. LITTLE, III
KEN TRAVIS

March 27, 2017

FINANCE DEPARTMENT MEMORANDUM

2017-06

TO: Honorable Mayor and Members of the City Commission

THROUGH: Kirk Bednar, City Manager

FROM: Richard Parker, Finance Director RP

SUBJECT: Capital Improvements Program Funding

The attached City of Brentwood six-year Capital Improvements Program (CIP) represents the City's effort at long-term infrastructure and facility planning. A substantial amount of time and cooperative effort among the various departments and City Manager was required to bring the program to this point. The recommendation includes 54 projects and improvements at a total cost of $138.4 million. As addressed in the previous memo from the City Manager, $91.5 million of these proposed projects are funded on either a "pay-as-you-go" basis or through the issuance of General Obligation and Water/Sewer Revenue Tax Bonds. The "pay-as-you-go" funding includes a minimum proposed FY 2017 year-end transfer to the Capital Projects Fund of $3.2 million.

While the vast majority of the proposed CIP is funded on a pay-as-you-go basis, the funding schedule does anticipate issuance of $4.9 million in General Obligation bonds in the fall of 2018. It is expected that this issuance would be designated as a "qualified tax-exempt obligation" within the meaning of the Internal Revenue Code. This allows the City to capture lower interest rates since commercial banks are given an extra tax preference to purchase this type of security.

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It is preferable that total General Obligation (G.O.) bond proceeds for any calendar year not exceed $10 million. This allows the City to fall under the "small issuer" exception permitted by federal arbitrage regulations and invest bond proceeds until they are needed to pay project costs without having to rebate to the federal government any excess investment earnings. While this reduces administrative burdens associated with closely monitoring earnings, the value of this investment can be lost if short-term yields are less than the cost of funds.

The issuance of additional debt beyond the $4.9 million is not currently proposed in the CIP, however, capacity exists for the City to issue $9.8 million over the next six years if needed to fund capital projects. Staff proposes to maintain the annual transfer to the Debt Service Fund at $2.95 million to ensure that debt service will remain level if the City chooses to continue the practice of bond-funding capital projects every two years.

The schedule below shows the General Fund's contribution to capital improvements through both direct project funding (pay-as-you-go, excluding Public Works Project Fees and intergovernmental sources) and debt service toward current and future bond funded projects.

Fiscal Year	Direct Project Funding	Transfer to Debt Service Fund	Total General Fund Related Support
2018	$ 16,810,000	$ 2,950,000	$ 19,760,000
2019	10,465,000	2,950,000	13,415,000
2020	4,880,000	2,950,000	7,830,000
2021	12,485,000	2,950,000	15,435,000
2022	4,170,000	2,950,000	7,120,000
2023	5,315,000	2,950,000	8,265,000
Total	**$ 54,125,000**	**$ 17,700,000**	**$ 71,825,000**

The six-year capital improvements program will be reevaluated and updated annually considering new priorities, revised costs, revenue trends, and other economic factors.

The Staff continues to appreciate the Commission's valuable input and guidance in support of the development and implementation of the Capital Improvements Program.

RESOLUTION 2017-xx

A RESOLUTION TO ADOPT A CAPITAL IMPROVEMENTS PROGRAM FOR THE CITY OF BRENTWOOD FOR THE FISCAL YEARS 2018-2023

WHEREAS, the City of Brentwood has grown rapidly in population and services since its inception in 1969; and

WHEREAS, a proposed program for capital improvements has been developed for the next six years to address the needs of a growing community; and

WHEREAS, this program allows for more effective use of planning, financial and organizational resources in implementing a widely understood capital improvements plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF BRENTWOOD, TENNESSEE, AS FOLLOWS:

SECTION 1. That the proposed Capital Improvements Program, establishing projects to be accomplished during fiscal years 2018-2023, is hereby adopted as a guideline for Brentwood city government.

SECTION 2. That this resolution shall take effect from and after its passage, the general welfare of the City of Brentwood, Williamson County, Tennessee requiring it.

MAYOR Regina Smithson

ADOPTED: June 26, 2017

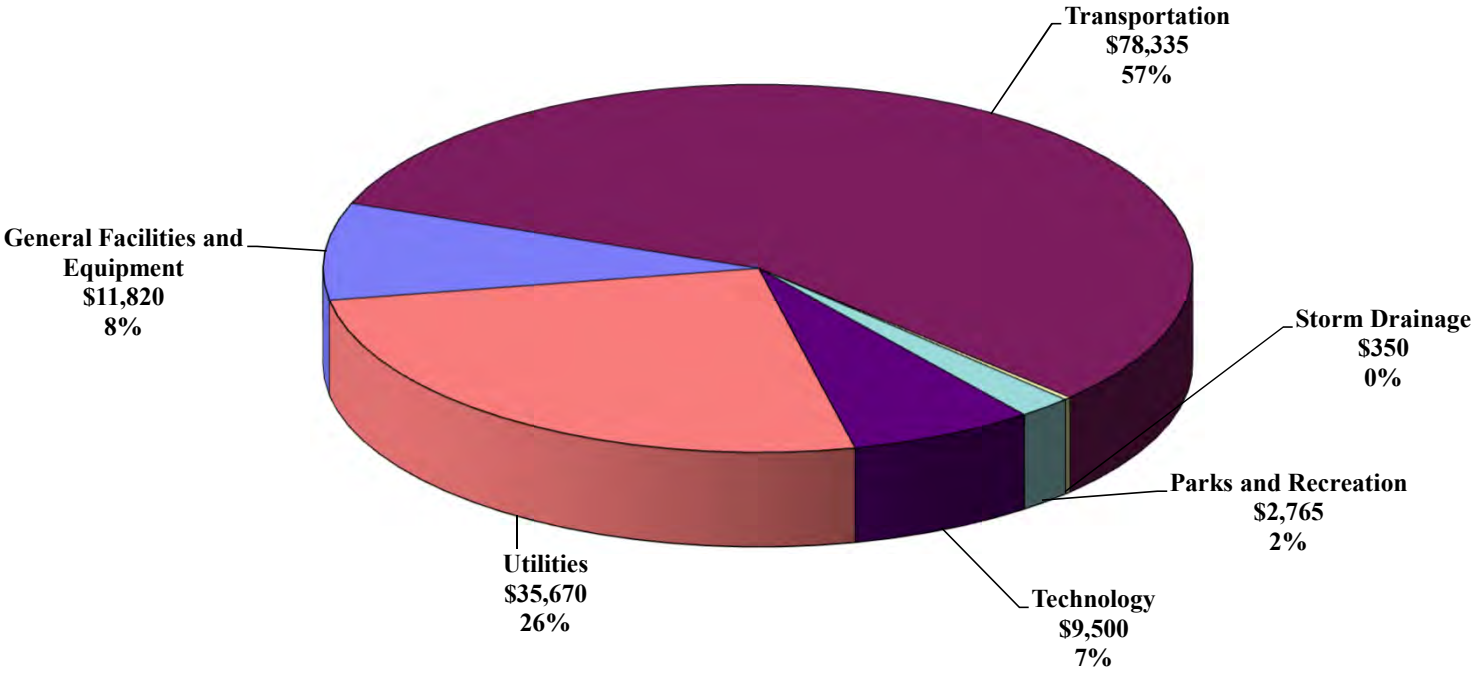
Approved as to form:

RECORDER Deborah Hedgepath

CITY ATTORNEY Roger A. Horner

SUMMARIES

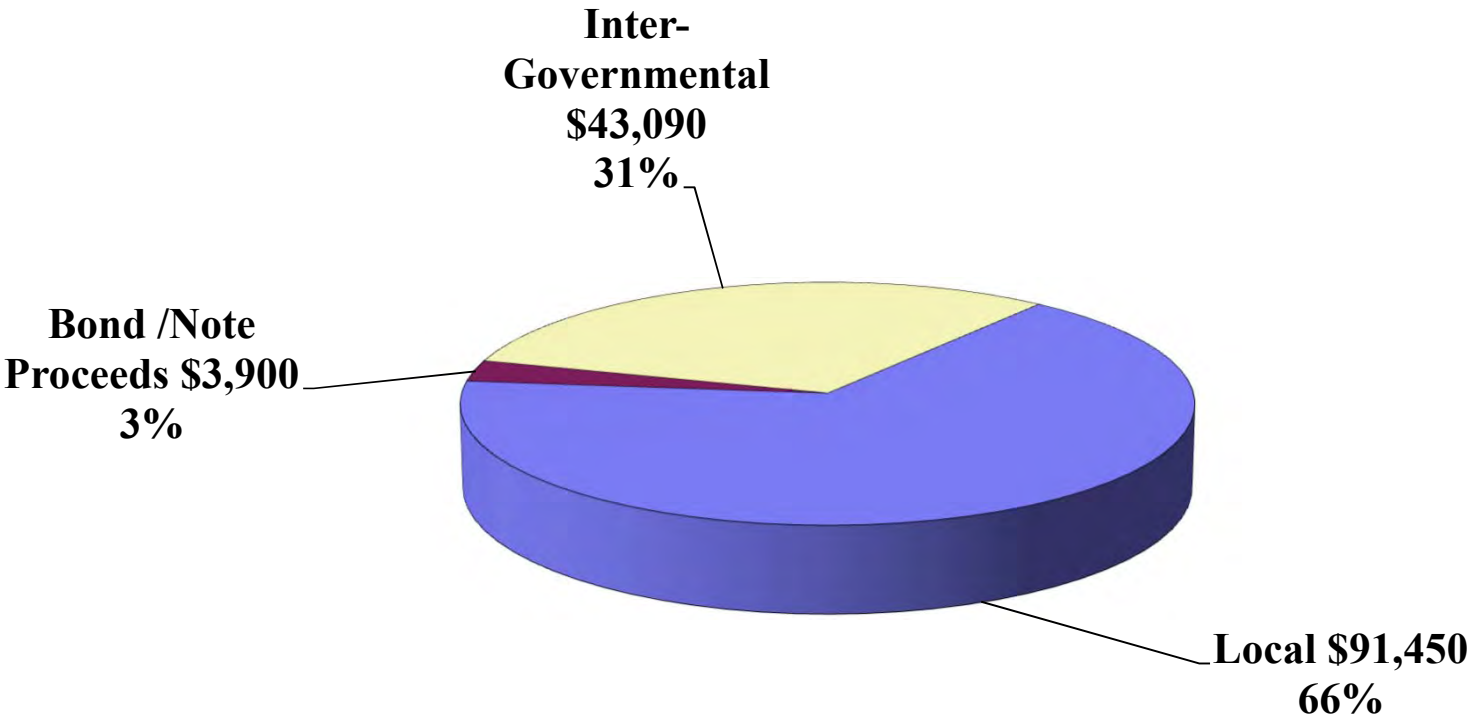
City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2018-2023
Program Expenditures
(000's)



Total for All Programs

$138,440

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Years 2018-2023
Funding by Source
(000's)



Total For All Programs
$138,440

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Program Expenditures - Summary
(000's)

Program	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
General Facilities and Equipment	1,025	2,195	4,070	1,505	940	1,225	1,885	11,820
Technology	1,595	4,950	2,205	925	565	245	610	9,500
Transportation	10,345	21,155	21,285	16,670	11,905	3,345	3,975	78,335
Storm Drainage	100	100	50	50	50	50	50	350
Parks and Recreation	2,705	915	495	170	175	445	565	2,765
Utilities	1,385	5,880	5,365	10,430	4,800	4,725	4,470	35,670
Grand Total	**17,155**	**35,195**	**33,470**	**29,750**	**18,435**	**10,035**	**11,555**	**138,440**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Sources of Funds - Summary
(000's)

Source	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-23
Capital Projects Fund	6,655	9,675	4,520	825	3,500	300	300	19,120
Emergency Communications District Fund	-	-	-	-	-	-	-	-
Equipment Replacement Division	1,210	1,355	1,900	1,035	1,065	1,160	2,100	8,615
Facilities Maintenance Division	310	515	345	345	350	395	340	2,290
General Fund	810	965	3,530	2,505	1,640	2,145	2,405	13,190
General Fund (Unrestricted Balance)	1,500	-	-	-	5,760	-	-	5,760
General Obligation Bond Proceeds	1,000	3,900	-	-	-	-	-	3,900
Municipal Center Fund	180	400	170	170	170	170	170	1,250
Private Sources	75	30	5	75	5	5	635	755
Public Works Project Fee Fund	1,000	600	1,000	3,000	-	-	-	4,600
Inter-Governmental Sources	1,165	10,450	15,500	10,300	-	-	-	36,250
State Street Aid Fund	1,780	1,140	1,140	1,140	1,140	1,140	1,140	6,840
Water and Sewer Fund	915	5,185	2,925	1,715	1,715	3,055	3,550	18,145
Water Tap Fees and NCGUD Grove Tap Fees	-	440	735	3,000	2,350	925	175	7,625
Sewer Tap Fees	-	540	1,700	5,640	740	740	740	10,100
Water & Sewer Bond/Note Proceeds	555	-	-	-	-	-	-	-
Grand Total	**17,155**	**35,195**	**33,470**	**29,750**	**18,435**	**10,035**	**11,555**	**138,440**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Summary - All Projects
(000's)

		Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
General Facilities	Community Identity Features	-	15	15	15	15	15	15	90
	Community Planning	-	90	-	-	50	-	50	190
	Equipment/Vehicles	720	855	1,460	695	580	915	1,525	6,030
	Library	50	360	50	50	50	50	50	610
	Municipal Center	180	400	170	170	170	170	170	1,250
	Park Operations Facility	-	70	1,000	-	-	-	-	1,070
	Police Headquarters	-	200	-	-	-	-	-	200
	Safety Center East	25	55	25	25	25	25	25	180
	Service Center	50	150	50	550	50	50	50	900
	Town Center Improvements	-	-	1,300	-	-	-	-	1,300
	Total - General Facilities	**1,025**	**2,195**	**4,070**	**1,505**	**940**	**1,225**	**1,885**	**11,820**
Technology	Computer Equipment	490	500	415	325	470	230	560	2,500
	Emergency Communications Center	750	-	-	-	-	-	-	-
	Fiber Optic Network	20	-	270	85	-	-	-	355
	GIS	-	150	-	-	45	-	-	195
	Radio System	140	4,300	1,160	-	-	-	-	5,460
	Security System	-	-	300	-	-	-	-	300
	Software Systems	195	-	25	515	15	15	15	585
	Warning Sirens	-	-	35	-	35	-	35	105
	Total - Technology	**1,595**	**4,950**	**2,205**	**925**	**565**	**245**	**610**	**9,500**
Transportation	ADA Retrofits	90	-	-	100	200	200	-	500
	Bike and Pedestrian Projects	50	655	500	350	350	350	350	2,555
	Carothers Parkway	205	-	-	-	-	-	-	-
	Concord Road (west of Arrowhead Drive)	130	-	-	-	-	-	-	-
	Concord Road (east of Edmondson Pike)	1,000	-	-	-	-	-	-	-
	Crockett Road	70	700	250	-	-	-	-	950
	Franklin Road (south section)	2,620	11,225	15,500	10,300	-	-	-	37,025
	Mallory Lane	-	75	-	500	-	-	-	575
	McEwen Drive	-	-	-	-	8,960	-	630	9,590
	Ragsdale Road	-	-	-	-	-	400	600	1,000
	Split Log Road	10	740	-	-	-	-	-	740

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Summary - All Projects
(000's)

		Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
Tranportation (cont'd)	Street Lighting	-	-	20	20	20	20	20	100
	Street Resurfacing	2,930	2,200	2,200	2,200	2,200	2,200	2,200	13,200
	Sunset Road	3,015	5,220	2,640	3,025	-	-	-	10,885
	Traffic Signal Upgrades	225	340	175	175	175	175	175	1,215
	Total - Transportation	**10,345**	**21,155**	**21,285**	**16,670**	**11,905**	**3,345**	**3,975**	**78,335**
Storm Drainage	Derby Glen	50	-	-	-	-	-	-	-
	Johnson Chapel Road	-	50	-	-	-	-	-	50
	Subdivision Drainage	50	50	50	50	50	50	50	300
	Total - Storm Drainage	**100**	**100**	**50**	**50**	**50**	**50**	**50**	**350**
Parks/Recreation	Concord Park	5	-	-	-	-	-	-	-
	Crockett Park	85	115	80	90	75	250	475	1,085
	Deerwood Arboretum	15	-	-	40	-	-	-	40
	Flagpole & Wikle Parks	320	20	25	-	-	-	-	45
	Granny White Park	50	-	15	35	100	145	30	325
	Marcella Vivrette Smith Park	2,170	770	150	-	-	50	-	970
	Maryland Way Park	-	-	150	-	-	-	-	150
	Owl Creek Park	60	-	75	-	-	-	60	135
	River Park	-	10	-	5	-	-	-	15
	Total - Parks/Recreation	**2,705**	**915**	**495**	**170**	**175**	**445**	**565**	**2,765**
Utilities	Meter Reading Program Upgrade	225	1200	500	0	0	0	0	1,700
	Miscellaneous Sewer Service Additions	0	45	105	415	45	45	45	700
	Miscellaneous Sewer System Improvements	35	540	115	110	110	110	110	1,095
	Miscellaneous Water System Improvements	110	115	185	110	110	110	110	740
	Sewer Rehabilitation Program	925	2390	1050	575	575	575	575	5,740
	Sewer System Capacity Improvements	0	500	1600	5300	700	700	700	9,500
	Sewer Lift Station Rehabilitation	0	30	285	230	0	0	0	545
	Water Line Replacement Program	0	620	790	690	910	835	580	4,425
	Water System Capacity Improvements	90	440	735	3000	2350	2350	2350	11,225
	Total - Utilities	**1,385**	**5,880**	**5,365**	**10,430**	**4,800**	**4,725**	**4,470**	**35,670**
TOTALS		**17,155**	**35,195**	**33,470**	**29,750**	**18,435**	**10,035**	**11,555**	**138,440**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018-2023
General Facilities and Equipment Program - Summary
(000's)

Projects	**Projected FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Total 6 Years 2018-2023**
Community Identity Features	-	15	15	15	15	15	15	90
Community Planning	-	90	-	-	50	-	50	190
Equipment/Vehicles	720	855	1,460	695	580	915	1,525	6,030
Library	50	360	50	50	50	50	50	610
Municipal Center	180	400	170	170	170	170	170	1,250
Park Operations Facility	-	70	1,000	-	-	-	-	1,070
Police Headquarters	-	200	-	-	-	-	-	200
Safety Center East	25	55	25	25	25	25	25	180
Service Center	50	150	50	550	50	50	50	900
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
Grand Total	**1,025**	**2,195**	**4,070**	**1,505**	**940**	**1,225**	**1,885**	**11,820**

Source of Funds								
Capital Projects Fund	-	445	1,300	-	-	-	-	1,745
General Fund	-	40	1,015	515	65	15	65	1,715
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	720	855	1,460	695	580	915	1,525	6,030
Facilities Maintenance Division	125	455	125	125	125	125	125	1,080
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	180	400	170	170	170	170	170	1,250
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	**1,025**	**2,195**	**4,070**	**1,505**	**940**	**1,225**	**1,885**	**11,820**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Technology Program - Summary
(000's)

Projects	**Projected FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Total 6 Years 2018-23**
Computer Equipment	490	500	415	325	470	230	560	2,500
Emergency Communications Center	750	-	-	-	-	-	-	-
Fiber Optic Network	20	-	270	85	-	-	-	355
GIS	-	150	-	-	45	-	-	195
Radio System	140	4,300	1,160	-	-	-	-	5,460
Security System	-	-	300	-	-	-	-	300
Software Systems	195	-	25	515	15	15	15	585
Warning Sirens	-	-	35	-	35	-	35	105
Grand Total	**1,595**	**4,950**	**2,205**	**925**	**565**	**245**	**610**	**9,500**

Source of Funds								
Capital Projects Fund	1,105	4,390	1,280	-	-	-	-	5,670
General Fund	-	-	485	585	70	-	35	1,175
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	490	500	440	340	485	245	575	2,585
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	60	-	-	10	-	-	70
ECD Fund	-	-	-	-	-	-	-	-
Grand Total	**1,595**	**4,950**	**2,205**	**925**	**565**	**245**	**610**	**9,500**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Transportation - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
ADA Retrofits	90	-	-	100	200	200	-	500
Bike and Pedestrian Projects	50	655	500	350	350	350	350	2,555
Carothers Parkway	205	-	-	-	-	-	-	-
Concord Road (west of Arrowhead Drive)	130	-	-	-	-	-	-	-
Concord Road (east of Edmondson Pike)	1,000	-	-	-	-	-	-	-
Crockett Road	70	700	250	-	-	-	-	950
Franklin Road (south section)	2,620	11,225	15,500	10,300	-	-	-	37,025
Mallory Lane	-	75	-	500	-	-	-	575
McEwen Drive	-	-	-	-	8,960	-	630	9,590
Ragsdale Road	-	-	-	-	-	400	600	1,000
Split Log Road	10	740	-	-	-	-	-	740
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,930	2,200	2,200	2,200	2,200	2,200	2,200	13,200
Sunset Road	3,015	5,220	2,640	3,025	-	-	-	10,885
Traffic Signal Upgrades	225	340	175	175	175	175	175	1,215
Grand Total	**10,345**	**21,155**	**21,285**	**16,670**	**11,905**	**3,345**	**3,975**	**78,335**

Source of Funds

Capital Projects Fund	4,555	4,000	1,940	825	3,500	300	300	10,865
General Fund	760	760	1,655	1,355	1,455	1,855	1,855	8,935
General Fund - Unrestricted Balance	-	-	-	-	5,760	-	-	5,760
G O Bond Proceeds	1,000	3,900	-	-	-	-	-	3,900
Facilities Maintenance Division	-	50	50	50	50	50	50	300
Private Sources	-	25	-	-	-	-	630	655
Public Works Project Fund	1,000	600	1,000	3,000	-	-	-	4,600
Inter-Governmental Sources	1,165	10,450	15,500	10,300	-	-	-	36,250
State Street Aid Fund	1,780	1,140	1,140	1,140	1,140	1,140	1,140	6,840
Water and Sewer Fund	85	230	-	-	-	-	-	230
Grand Total	**10,345**	**21,155**	**21,285**	**16,670**	**11,905**	**3,345**	**3,975**	**78,335**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Storm Drainage Program - Summary
(000's)

Projects	**Projected FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Total 6 Years 2018-2023**
Derby Glen	50	-	-	-	-	-	-	-
Johnson Chapel Road	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	**100**	**100**	**50**	**50**	**50**	**50**	**50**	**350**
Source of Funds								
Capital Projects Fund	50	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	**100**	**100**	**50**	**50**	**50**	**50**	**50**	**350**

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Parks and Recreation Program - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
Concord Park	5	-	-	-	-	-	-	-
Crockett Park	85	115	80	90	75	250	475	1,085
Deerwood Arboretum	15	-	-	40	-	-	-	40
Flagpole & Wikle Parks	320	20	25	-	-	-	-	45
Granny White Park	50	-	15	35	100	145	30	325
Marcella Vivrette Smith Park	2,170	770	150	-	-	50	-	970
Maryland Way Park	-	-	150	-	-	-	-	150
Owl Creek Park	60	-	75	-	-	-	60	135
River Park	-	10	-	5	-	-	-	15
Grand Total	**2,705**	**915**	**495**	**170**	**175**	**445**	**565**	**2,765**
Source of Funds								
Capital Projects Fund	945	790	-	-	-	-	-	790
General Fund	-	115	325	-	-	225	400	1,065
General Fund - Unrestricted Balance	1,500	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Facilities Maintenance Division	185	10	170	170	175	220	165	910
Private Sources	75	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	**2,705**	**915**	**495**	**170**	**175**	**445**	**565**	**2,765**

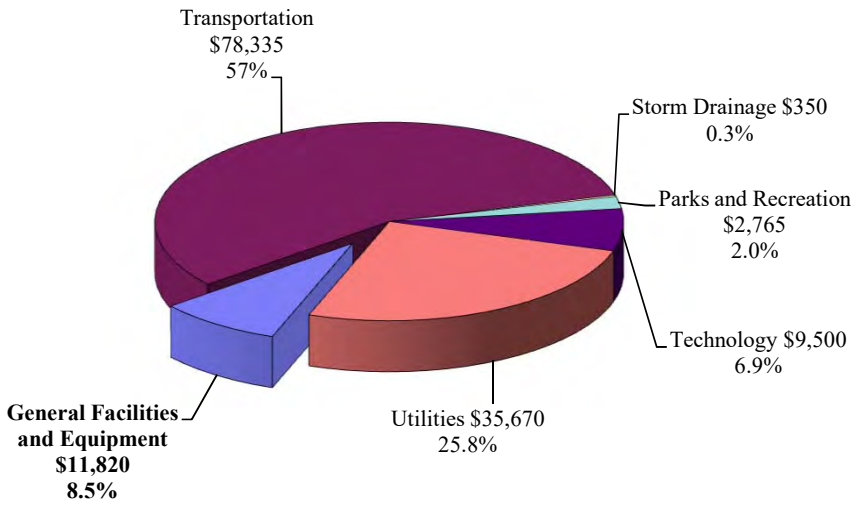
City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Water and Sewer Program - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
Meter Reading Program Upgrade	225	1,200	500	-	-	-	-	1,700
Miscellaneous Sewer Service Additions	-	45	105	415	45	45	45	700
Miscellaneous Sewer System Improvements	35	540	115	110	110	110	110	1,095
Miscellaneous Water System Improvements	110	115	185	110	110	110	110	740
Sewer Rehabilitation Program	925	2,390	1,050	575	575	575	575	5,740
Sewer System Capacity Improvements	-	500	1,600	5,300	700	700	700	9,500
Sewer Lift Station Rehabilitation	-	30	285	230	-	-	-	545
Water Line Replacement Program	-	620	790	690	910	835	580	4,425
Water System Capacity Improvements	90	440	735	3,000	2,350	2,350	2,350	11,225
Grand Total	**1,385**	**5,880**	**5,365**	**10,430**	**4,800**	**4,725**	**4,470**	**35,670**
Source of Funds								
Water and Sewer Fund	830	4,895	2,925	1,715	1,705	3,055	3,550	17,845
Water Tap Fees and NCGUD Grove Tap Fees	-	440	735	3,000	2,350	925	175	7,625
Sewer Tap Fees	-	540	1,700	5,640	740	740	740	10,100
Private Sources	-	5	5	75	5	5	5	100
Water and Sewer Bond/Note Proceeds	555	-	-	-	-	-	-	-
Grand Total	**1,385**	**5,880**	**5,365**	**10,430**	**4,800**	**4,725**	**4,470**	**35,670**

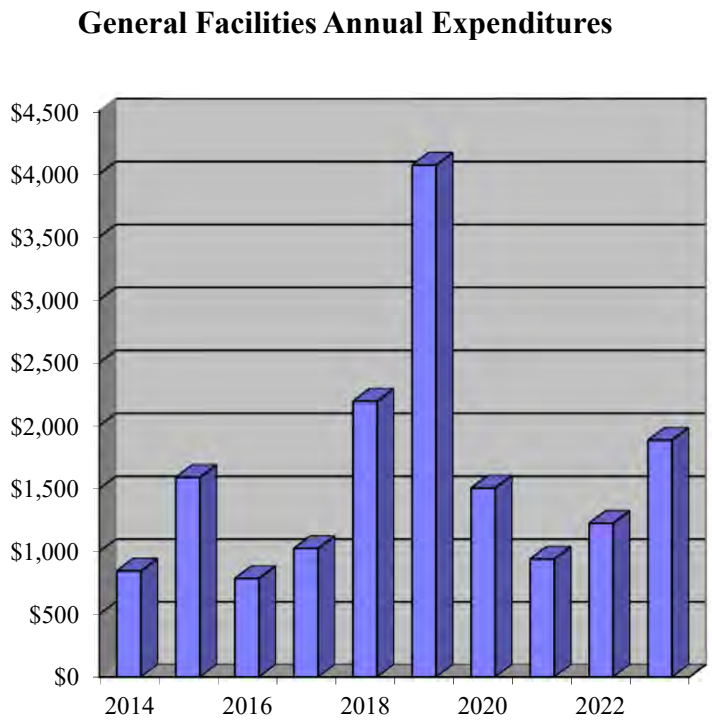
GENERAL FACILITIES and EQUIPMENT

GENERAL FACILITIES AND EQUIPMENT

FISCAL YEARS 2018-2023



Amounts in 000's



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018-2023
General Facilities and Equipment Program - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
Community Identity Features	-	15	15	15	15	15	15	90
Community Planning	-	90	-	-	50	-	50	190
Equipment/Vehicles	720	855	1,460	695	580	915	1,525	6,030
Library	50	360	50	50	50	50	50	610
Municipal Center	180	400	170	170	170	170	170	1,250
Park Operations Facility	-	70	1,000	-	-	-	-	1,070
Police Headquarters	-	200	-	-	-	-	-	200
Safety Center East	25	55	25	25	25	25	25	180
Service Center	50	150	50	550	50	50	50	900
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
Grand Total	**1,025**	**2,195**	**4,070**	**1,505**	**940**	**1,225**	**1,885**	**11,820**

Source of Funds								
Capital Projects Fund	-	445	1,300	-	-	-	-	1,745
General Fund	-	40	1,015	515	65	15	65	1,715
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	720	855	1,460	695	580	915	1,525	6,030
Facilities Maintenance Division	125	455	125	125	125	125	125	1,080
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	180	400	170	170	170	170	170	1,250
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	**1,025**	**2,195**	**4,070**	**1,505**	**940**	**1,225**	**1,885**	**11,820**

PROJECT	**Community Identity Features**	**Account #**	**311-45200-5026**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Community Relations**

DESCRIPTION

This project provides for the installation of gateway entrance features, directional signage and other beautification improvements along the primary streets of Brentwood.

STATUS

Funding is provided in FY 2018 for installation of an entrance sign to be installed on city owned right of way at the corner of Concord Road and Forest Trail at the eastern city limits. Funding is allocated in future years for beautification projects as identified.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Construction		15	15	15	15	15	15	90
TOTAL EXPENDITURES	-	15	15	15	15	15	15	90
SOURCE OF FUNDS								
Capital Projects Fund		15						15
General Fund			15	15	15	15	15	75
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	15	15	15	15	15	15	90

JUSTIFICATION

The provision of community identity features is an objective in the Brentwood 2030 Plan. The goal is to provide clear, attractive and distinct features to help distinguish Brentwood from the surrounding communities.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Community Planning**	**Account #**	**311-45200-5009**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Planning and Codes**

DESCRIPTION

This project addresses long range planning efforts of the City. This includes periodic updates to the Brentwood 2020 Comprehensive Plan which was originally adopted in 1999 and updated in 2006 and 2015. The 2020 Plan as amended provides guidance in decision-making as the community approaches projected build-out in the next 10-20 years. In addition, the City periodically conducts a special census between the normal U.S. Census to determine accurately the current population mid-decade.

STATUS

FY 2017 funding ($50,000) was allocated for a study to update the Public Works Project Fee schedule to insure the fee assessed against new development adequately funds roadway capacity enhancements needed to mitigate the impact of new development. This project will carry over to FY 2018. Funding is also programmed in FY 2018 for a special census ($40,000). Any additional revenue generated from the census findings would be realized in FY 2019. FY 2021 funding includes a minor update to the Brentwood 2030 Plan ($50,000) if deemed necessary, and another special census is anticipated in FY 2023 ($50,000).

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Consultant Services		50			50			100
Special Census		40					50	90
TOTAL EXPENDITURES	-	90	-	-	50	-	50	190
SOURCE OF FUNDS								
Capital Projects Fund		50						50
General Fund		40			50		50	140
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	90	-	-	50	-	50	190

JUSTIFICATION

The Public Works Project Fee schedule was last updated in 2007. One of the priorities indicated in the 2020 community survey was to insure that new development paid its appropriate share of transportation related project costs. Use of an outside firm to update the City's fee schedule will insure the revised schedule reflects current methodologies regarding appropriate cost allocations, credits, etc. and is legally defensible if challenged. Funding for periodic special censuses insures the City receives its appropriate share of state shared revenues that are distributed on a per capita basis.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:
(potential increase in PWPF revenues if a fee increase is justified)

PROJECT	**Equipment/Vehicles**	**Account #**	**310-43120-89520 (PW), 310-42200-89520 (Fire), 310-44400-89520 (Parks), 310-42100-89520 (Police) 311-45200-5027 (Equipment)**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Public Works, Fire, Parks, & Police**

DESCRIPTION

The replacement of large equipment and apparatus with a value in excess of $40,000 (including fully equipped patrol cars with specialized equipment) is funded from this account. Large equipment includes fire engines / rescue vehicles, ladder trucks, brush removal trucks, and larger dump trucks. Cars, pickups, and equipment in departments other than Police less than $40,000 are purchased directly in the operating budget of each department.

STATUS

Funding in FY 2017 included replacement of a front-end loader ($150,000), a tractor ($120,000), and an excavator ($60,000) in Public Works, a bucket truck in Traffic Operations ($105,000), rehab of Rescue 1 in Fire ($30,000), and (7) vehicles in Police (255,000).

Expenditures programmed in FY 2018 include a chipper truck ($90,000) and a gradeall ($380,000) in Public Works, and nine (9) replacement vehicles in the Police Department ($340,000). Also included in FY 2018 is an additional chippper machine ($45,000), funding for which is subject to a FY 2017 year-end appropriation from the General Fund to the Equipment Replacement Replacement Fund.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Public Works Vehicles	435	515	190	270		295	340	1,610
Fire Pumper/Ladder	30		900				865	1,765
Parks Equipment					60	75		135
Police Vehicles	255	340	370	425	520	545	320	2,520
Misc. Equipment								
TOTAL EXPENDITURES	720	855	1,460	695	580	915	1,525	6,030
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	720	855	1,460	695	580	915	1,525	6,030
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
TOTAL FUNDS	720	855	1,460	695	580	915	1,525	6,030

JUSTIFICATION

In order to minimize the financial burden of purchasing expensive equipment in a single year, annual contributions are made by the benefiting General Fund departments to the Equipment Replacement Fund. This allows for the systematic accumulation of funds over multiple years for the replacement of larger equipment needed for the safe and effective delivery of services. This approach enables the General Fund to avoid a major cash outlay in a single fiscal year and/or the issuance of long term notes or bonds to fund equipment needs.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

(routine replacement helps reduce annual maintenance and repair costs)

OFFSETTING REVENUE:

PROJECT	**Library**	**Account #**	**311-45200-5002** **312-44800-89600 (Facilities Maintenance)**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Library**

DESCRIPTION

This project provides for improvements and extraordinary repairs to the Brentwood Library. The original 43,500 sf. facility was opened in 1998 and was expanded in the fall of 2009 to 56,000 sf. plus some of the original space was reconfigured and renovated to better meet program needs.

STATUS

FY 2017 included $50,000 from the Facility Maintenance Fund for extraordinary building maintenance items that may occur throughout the year. A similar amount is provided in every future year of the CIP. FY 2019 includes additional funding ($230,000) for replacement of the roof on the pre-expansion portion of the building, as well as replacement of the audio-visual system in Meeting Rooms A & B ($80,000). Funding for the audio-visual system replacement is subject to the FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Architectural Services								
Construction								
Facility Maintenance	50	280	50	50	50	50	50	530
Equipment		80						80
TOTAL EXPENDITURES	50	360	50	50	50	50	50	610
SOURCE OF FUNDS								
Capital Projects Fund		80						80
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	50	280	50	50	50	50	50	530
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	50	360	50	50	50	50	50	610

JUSTIFICATION

The library is the most utilized City facility on a daily basis. Improvements to the facility allows for expanded collections and programs and ensures the facility will remain a state of the art building serving the intellectual needs of patrons in the future. The roof on the original portion of the library is approximately 20 years old and is now experiencing frequent leaks, necessitating replacement.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Municipal Center**	**Account #**	**434-16200**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Finance**

DESCRIPTION

This project provides for general improvements, space renovations and extraordinary repairs to the Municipal Center to better meet the needs of various departments in providing service to the public and to protect the integrity of the building and property. This 30 year old building was oversized in the beginning to allow for future expansion by City departments. A limited amount of surplus space was leased to a private tenant until there was a need for more public space.

STATUS

Funding in FY 2017 and FY 2018 previously included $30,000 and $20,000 respectively for architectural services for locker room renovations to improve male/female parity and functionality of these 30 year-old facilities. Projected funding of $450,000 was also provided in FY 2018 for construction, including temporary locker room facilities. With the current consideration of an off-site headquarters building for the Police Department, plans for the locker rooms have been put on hold. FY 2018 funding has been provided for a re-roof of the Municipal Center ($280,000) and funding for extraordinary repairs and small renovation projects ($100,000). Future year funding is provided as a placeholder for extraordinary repairs.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Construction	150	380	150	150	150	150	150	1,130
Architectural Services	30		20	20	20	20	20	100
Consultant Services		20						20
TOTAL EXPENDITURES	180	400	170	170	170	170	170	1,250
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund	180	400	170	170	170	170	170	1,250
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	180	400	170	170	170	170	170	1,250

JUSTIFICATION

When the building was originally opened in 1987, the initial space configuration for departments did not plan for orderly expansion of office space for departments as the need arose. The renovation projects completed in FY 2012 greatly improved space utilization and layout within the building and provided for enhanced public service capabilities within the lobby and a state of the art emergency communications center. Locker rooms, originally designed for a workforce that included few female public safety employees, are now poorly configured for parity with an increasing number of females in the Fire and Police departments. Roof leaks in recent years have necessitated replacment of the 30-year-old roof.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**15**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**15**

(improvements increase annual depreciation expense for the Municipal Center Fund)

OFFSETTING REVENUE:

PROJECT	**Park Operations Facility**	**Account #**	**311-45200-5029**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for site selection, design, and construction of a Park Operations Facility to house all Parks Department staff. Priority sites will be centrally located within the City and close to (or within) the City's larger parks.

STATUS

FY 2018 funding provides for architecture/engineering services to assist with site selection, prepare cost estimates, and develop plans/specifications for the new facility ($70,000). Construction is anticipated in FY 2019 ($1,000,000) assuming a suitable site is identified and approved by the City Commission. FY 2018 funding is subject to a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund in the amount of $70,000.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Planning/Engineering		70	25					95
Buildings, Facilities, etc.			925					925
Furniture/Equipment			50					50
Landscaping/Trees								
TOTAL EXPENDITURES	-	70	1,000	-	-	-	-	1,070
SOURCE OF FUNDS								
Capital Projects Fund		70						70
General Fund			1,000					1,000
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund				-	-	-	-	
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	70	1,000	-	-	-	-	1,070

JUSTIFICATION

The Parks Department operations are currently split between two facilities. The administrative offices and main staff functions, including vehicle storage, etc. are at the Service Center on General George Patton Drive, while most park equipment (mowers, etc.) is stored in an unheated maintenance shed at Crockett Park. Having all Parks Department functions more centrally located within a park creates more efficiency for the department and also frees up needed office and yard space at the Service Center.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	45
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	45
(Building operation costs including utilities, maintenance, etc.)	

OFFSETTING REVENUE:

PROJECT Police Headquarters **Account #** 311-45200-5028

PROGRAM General Facilities & Equipment **RESPONSIBLE DEPARTMENT** Police

DESCRIPTION

This project provides for the possible design and construction of a new headquarters facility for the Police Department on property owned by the City of Brentwood located at 940 Heritage Way. It is anticipated that all department operations would relocate the new facility, with the exception of Emergency Communications.

STATUS

Funding is provided in FY 2018 for a detailed space-needs analysis, preliminary site investigations, and a more refined cost estimate for the possible new facility in order to provide the City Commission with sufficient information to make a final decision about moving forward with the project. If the project does move forward, sufficient funds are included in FY 2018 to continue with schematic design work while the final timing of construction as well as a funding strategy is developed. FY 2018 funding is contingent upon a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Construction								
Architectural Services		200						200
Consultant Services								
TOTAL EXPENDITURES	-	200	-	-	-	-	-	200
SOURCE OF FUNDS								
Capital Projects Fund		200						200
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	200	-	-	-	-	-	200

JUSTIFICATION

When the Municipal Center building was originally opened in 1987, the initial space configuration for departments did not plan for orderly expansion of office space for departments as the need arose. Though the renovation projects completed in FY 2012 improved space utilization and layout within the building, long-term storage and office space needs for all departments will be severely challenged. Police operations are currently split, with patrol functions on the east end of the building and all other functions on the west end of the building. Security for police functions is severely lacking. Consolidation of Police department operations in a new facility would provide operational efficiencies for the department and alleviate space constraints at the Municipal Center.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

(A new facility would add significant new operating costs that would be further identified as part of the next planning stage)

OFFSETTING REVENUE:

PROJECT	**Safety Center East**	**Account #**	**311-45200-5014 (Safety Center East CIP)** **312-42200-89600 (Facilities Maintenance)**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Public Works (Salt Bldg.)** **Fire (Maintenance)**

DESCRIPTION

This project provides for maintenance and improvements to the Safety Center East which includes Fire Station #4, the Police Dare office, a community room, fire training center, Public Works salt storage building, and fuel facility.

STATUS

FY 2018 funding provides for construction of a covered storage facility at the northeast corner of the training grounds. The facility will be dual purpose, providing both a much-needed covered equipment storage area and a shelter location for firefighters conducting training operations in inclement weather. Facilities Maintenance funding in the amount of $25,000 is programmed annually for extraordinary repair projects that may arise during the year.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering Services								
Construction								
Facility Maintenance	25	55	25	25	25	25	25	180
TOTAL EXPENDITURES	25	55	25	25	25	25	25	180
SOURCE OF FUNDS								
Capital Projects Fund		30						30
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Fund								
Facilities Maintenance Fund	25	25	25	25	25	25	25	150
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	25	55	25	25	25	25	25	180

JUSTIFICATION

This multi-functional facility serves a variety of city and community purposes. The facility is now over 10 years old and will require periodic maintenance to insure it remains in acceptable condition.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT Service Center **Account #** 311-45200-5005
312-43170-89600 (Facilities Maintenance)

PROGRAM General Facilities & Equipment **RESPONSIBLE DEPARTMENT** Public Works

DESCRIPTION

This project provides for periodic improvements to the Service Center on General George Patton Drive. The facility houses the operations for the Public Works, Parks, Water Services and Engineering departments as well as Fire Station No. 3. The site also includes the Police Department's impound lot, the chipper transfer facility, and one of the City's two salt storage facilities.

STATUS

Repaving of the maintenance and storage yard is planned for FY 2018 ($150,000). Funding in FY 2020 ($500,000) is provided for interior renovations subsequent to the Parks Department relocating to a newly constructed facility. For FY's 2019 - 2023, funding is provided for extraordinary repairs and maintenance as may be required for this 25 year old facility.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering				35				35
Construction		150		465				615
Facility Maintenance	50		50	50	50	50	50	250
TOTAL EXPENDITURES	50	150	50	550	50	50	50	900
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund				500				500
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	50	150	50	50	50	50	50	400
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	50	150	50	550	50	50	50	900

JUSTIFICATION

This 25 year-old facility requires periodic repairs and improvements to ensure effective operation and to protect the City's investment.

PROGRAM AND FACILITY COSTS:

Personnel Services	**0**
Operating Expenditures	**0**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Town Center Improvements**	**Account #**	**311-45200-5013**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides funding for the purchase of land, design, and/or construction of public improvements such as street improvements, sidewalk additions, etc. within the Town Center District.

STATUS

Of the $1.4 million originally allocated to this account in the Capital Projects Fund, $100,000 was reallocated for the upgrade of a small section of Pewitt Drive during CY 2010. The remaining $1.3 million is available should opportunities arise. No projects are anticipated for FY 2018. FY 2019 funding is programmed to reflect these funds being reserved should an appropriate project be identified.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Land Acquisition								
Construction			1,300					1,300
TOTAL EXPENDITURES	-	-	1,300	-	-	-	-	1,300
SOURCE OF FUNDS								
Capital Projects Fund			1,300					1,300
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	-	1,300	-	-	-	-	1,300

JUSTIFICATION

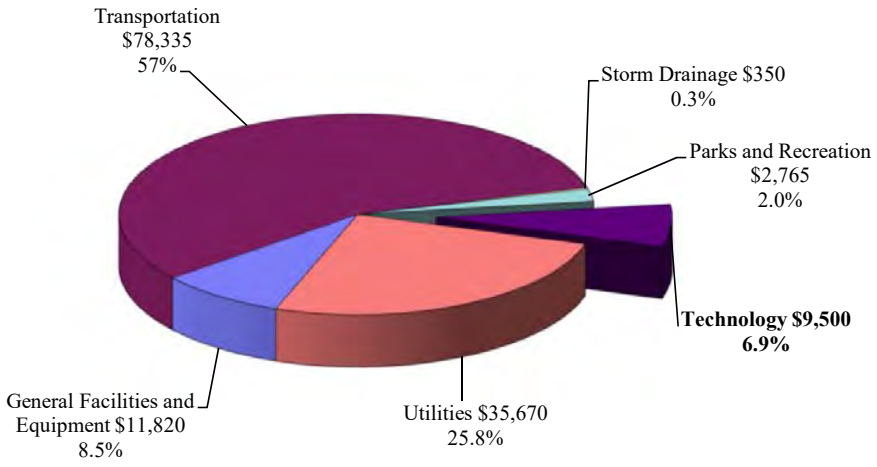
The City is committed to facilitating redevelopment of the Town Center area by the private sector primarily through upgrade of the public infrastructure. To date, the City has spent $3.7 million for construction of Town Center Way between Franklin Road and Wilson Pike, Pewitt Drive improvements and upgrade or relocation of water and sewer lines.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	
Debt Service	**0**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**
OFFSETTING REVENUE:	

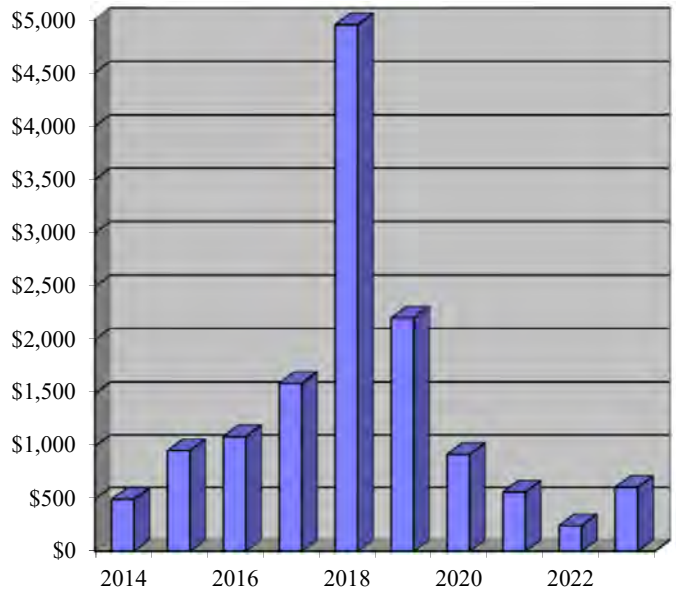
TECHNOLOGY

TECHNOLOGY

FISCAL YEARS 2018-2023



Amounts in 000's



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Technology Program - Summary
(000's)

Projects	**Projected FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Total 6 Years 2018-23**
Computer Equipment	490	500	415	325	470	230	560	2,500
Emergency Communications Center	750	-	-	-	-	-	-	-
Fiber Optic Network	20	-	270	85	-	-	-	355
GIS	-	150	-	-	45	-	-	195
Radio System	140	4,300	1,160	-	-	-	-	5,460
Security System	-	-	300	-	-	-	-	300
Software Systems	195	-	25	515	15	15	15	585
Warning Sirens	-	-	35	-	35	-	35	105
Grand Total	**1,595**	**4,950**	**2,205**	**925**	**565**	**245**	**610**	**9,500**
Source of Funds								
Capital Projects Fund	1,105	4,390	1,280	-	-	-	-	5,670
General Fund	-	-	485	585	70	-	35	1,175
General Fund - Unrestricted Balance	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	490	500	440	340	485	245	575	2,585
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	60	-	-	10	-	-	70
ECD Fund	-	-	-	-	-	-	-	-
Grand Total	**1,595**	**4,950**	**2,205**	**925**	**565**	**245**	**610**	**9,500**

PROJECT	**Computer Equipment**	**Account #**	**310-41640-89540 (Hardware Replacement)** **310 - 41640-83540 (Computer Hardware N/C)**
PROGRAM	**Technology**	**RESPONSIBLE DEPARTMENT**	**Technology**

DESCRIPTION

This project provides for the purchase of specialized computer and communications equipment and the systematic replacement of computer hardware and equipment including desktop computers, network servers, etc. Decisions on actual replacements are based upon a comprehensive, six year replacement schedule with annual review and update by the Technology Department.

STATUS

FY 2017 funding included network storage for the City's datacenter, replacement of 29 remaining mobile data terminals and 18 computers in Police, 27 computers and 10 iPads in the Library, and other computers and devices in city departments. FY 2018 funding includes replacement of 14 laptops ($22,800), a server ($3,500), and external storage ($30,000) in the Library; 9 laptops ($15,800) in Technology; a smartboard for the Fire Department Conference Room ($5,000); and network storage for the datacenter ($280,000). Miscellaneous routers and switches will also be replaced ($97,600) in FY 2018. Replacement of some items is based upon the condition and performance of the item at that time, and some items scheduled for replacement in FY 2018 may be delayed to FY 2019 or later if the item's performance is satisfactory.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Computer/Hardware/Equipment	490	500	415	325	470	230	560	2,500
Mobile Data/GPS Equipment								
Disaster Recovery System								
TOTAL EXPENDITURES	490	500	415	325	470	230	560	2,500
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	490	500	415	325	470	230	560	2,500
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	490	500	415	325	470	230	560	2,500

JUSTIFICATION

In order to minimize the financial burden of purchasing expensive equipment in any single year, annual contributions are made from the operating budget of the Technology Department to the Equipment Replacement Fund. This allows for the systematic accumulation of funds over multiple years for the replacement of basic equipment needed for the continued effective and efficient delivery of services. This approach enables the General Fund to avoid a major cash outlay in a single fiscal year and/or the issuance of general obligation debt.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

(periodic replacement reduces on-going maintenance cost)

OFFSETTING REVENUE:

PROJECT	**Emergency Communications Center**	**Account #**	**450-13080**
PROGRAM	**General Facilities & Equipment**	**RESPONSIBLE DEPARTMENT**	**Police/Fire/Technology**

DESCRIPTION

This project provides for upgrading the 911 Phone Controller, CAD software and other equipment needed to maintain a state of the art Public Safety 911 and emergency communications center.

STATUS

The replacement of the CAD system was completed in FY 2017 ($750,000). The project was funded through a transfer of ECD retained earnings to the Capital Projects Fund. CAD is the Computer Aided Dispatch system that enables dispatchers to electronically coordinate public safety resources in response to emergency calls for service. The City now utilizes the same vendor (TriTech) used by the consolidated Williamson County/City of Franklin dispatch center.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Architecture/Engineering								
Electrical/Generator								
Computer Equipment								
Communication Equipment								
Computer Software	750							
Construction								
TOTAL EXPENDITURES	750	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	750							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	750	-	-	-	-	-	-	-

JUSTIFICATION

The emergency communications center is the critical first link for effective delivery of public safety services in Brentwood. A sufficiently sized and secured work space with state of the art computer, radio and telephone systems is essential for quick, effective and accurate processing of 911 telephone and radio calls and to minimize paperwork and duplicate records keeping.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures (ECD Fund)	**150**
Debt Service	
(Annual ECD maintenance contract = $75,000)	
	150

OFFSETTING REVENUE:

PROJECT	**Fiber Optic Network**	**Account #**	**311-45300-6005**
PROGRAM	**Technology**	**RESPONSIBLE DEPARTMENT**	**Technology**

DESCRIPTION

This program provides for the expansion of the City's fiber optic network which serves both data and voice needs for City operations as well as the traffic signal synchronization system/traffic operations center.

STATUS

FY 2017 funding completed the fiber connection with the City of Franklin along General George Patton Drive. Funding was also originally included for design and utility make ready work for a northern fiber loop along Wilson Pike between Concord Road and Church Street. Unfortunately, that project has not proceeded due to the inability to identify a viable fiber route. This project has been pushed forward to 2019 in the hope that a route will be identified. FY 2020 funding provides for extension of the fiber network along Franklin Road between Concord Road and Moore's Lane following completion of the Franklin Road widening project ($85,000). Installation of conduit for underground routing of the fiber is part of the Franklin Road widening project.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering			50	10				60
Construction	20		220	75				295
TOTAL EXPENDITURES	20	-	270	85	-	-	-	355
SOURCE OF FUNDS								
Capital Projects Fund	20		120					120
General Fund			150	85				235
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	20	-	270	85	-	-	-	355

JUSTIFICATION

The City-owned fiber optic network allows for quicker and more secure voice and data communication between city facilities. Continued expansion of the network to create loops provides redundancy in case of damage to lines and disruption of normal service. The fiber connection to Franklin is providing for exchange of CAD, GIS, traffic camera video, and is a vital link from Williamson County to Nashville's existing 800MHz radio system. This connects the two systems and will allow the new radio system to communicate all over Middle Tennessee.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures (net)	**10**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**10**
(pole attachment fees to utilities)	
OFFSETTING REVENUE:	

PROJECT GIS **Account #** 311-45300-6008

PROGRAM Technology **RESPONSIBLE DEPARTMENT** Technology

DESCRIPTION This project provides for periodic updates to the City's computerized mapping system and aerial photography of the community. The City works closely with Williamson County and the City of Franklin to partner in the work when possible, thereby reducing the cost for all jurisdictions.

STATUS Funding in FY 2018 will provide for a complete orthophotography fly-over and system update, complete with lidar/planometrics. Funding is provided in 2021 for an interim update of aerial photography.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
GIS		150			45			195
TOTAL EXPENDITURES	-	150	-	-	45	-	-	195
SOURCE OF FUNDS								
Capital Projects Fund		90						90
General Fund					35			35
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund		60			10			70
ECD Fund								
TOTAL FUNDS	-	150	-	-	45	-	-	195

JUSTIFICATION

The GIS system is a key component for carrying out many daily activities of the City, including 911 dispatch, water and sewer services, and planning/development activities. Periodic updates to the base mapping data to account for new development and redevelopment activities is critical to the overall accuracy and effectiveness of the GIS system for users.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Radio System**	**Account #**	**311-45300-6004**
PROGRAM	**Technology**	**RESPONSIBLE DEPARTMENT**	**Technology**

DESCRIPTION

This project provides for upgrades and expansion of the City's radio communication system that serves the Police and Fire Departments and Service Center Departments including Water & Sewer and Public Works.

STATUS

Funding below is provided for development of a regional interoperable 700 MHz radio system that will enable all public safety agencies and schools in Williamson County to communicate using the same technology and will also provide interconnection with the Metro Nashville 800 MHz system. Cost projections show Brentwood's share of the system cost to be approximately $4.8 million, including a portion of the cost for a county tower in the Nolensville area that is needed to provide sufficient coverage in the eastern portion of Brentwood. A system contract with Motorola was approved by the Williamson County Joint Communications Network Authority in FY 2017, allowing implementation work to begin. Special year-end transfers of $1,000,000 of excess General Fund revenues to the Capital Projects Fund in 2013, 2014, 2015 and 2016 ($1,100,000) pre-funded $4,100,000 of needed funding for this project. Another $700,000 is being added as part of a FY 2017 year-end transfer of excess General Fund revenues to the Capital Projects Fund. Funding in FY 2019 ($800,000) will replace the City's legacy non-public safety radios with Motorola radios using pricing provided in the Authority's contract.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Equipment	140	4,300	1,160					5,460
Construction								
TOTAL EXPENDITURES	140	4,300	1,160	-	-	-	-	5,460
SOURCE OF FUNDS								
Capital Projects Fund	140	4,300	1,160					5,460
General Fund								
General Fund (Unrestricted Balance)								
G.O. Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	140	4,300	1,160	-	-	-	-	5,460

JUSTIFICATION

Despite technology advances in recent years with alternative forms of communication, the standard radio system remains the City's primary method of communication by employees in the field. It is also the most reliable communications system between departments during an emergency event or disaster when immediate communication is essential and cell phones and other forms of technology are overwhelmed though use by the general public. Interoperable communications with surrounding jurisdictions in both Williamson and Davidson counties is an essential component of effective delivery of public safety services given Brentwood's location between Nashville and Franklin. The opportunity to join with Williamson County and Franklin in development of a countywide system via expansion of Franklin's existing system and concurrently integrating systems with Metro Nashville provides a great opportunity to cost effectively upgrade the City's public safety communication systems and provide seamless communication across Williamson and Davidson counties.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	**350**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**350**

(New system would require annual maintenance fees, beginning in FY 2019 plus replacement reserves for radio units)

OFFSETTING REVENUE:

PROJECT Security System **Account #** 311-45300-6016

PROGRAM Technology **RESPONSIBLE DEPARTMENT** Technology

DESCRIPTION

This project provides for the replacement of the City's 15 year-old access card security system. The system provides ID card-swipe access to the Municipal Center, Service Center, Library, Safety Center East, Fire Station #2, and Marcella Vivrette Park. This programmable system allows the City to authorize individual employees to access those facilities and work areas necessary to perform their job functions. This legacy system is no longer supported by the manufacturer and spare parts are becoming difficult to acquire.

STATUS

Funding in FY 2019 is provided for replacement of the software system and all card-swipe hardware ($300,000). This will include 54 swipe pads at the Municipal Center, 17 at the Service Center, 13 at the Library, 12 at Safety Center East, 2 at Fire Station #2, and 1 at the Smith Park entrance.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Card-Swipe Secure Access System			300					300
TOTAL EXPENDITURES	-	-	300	-	-	-	-	300
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			300					300
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	-	300	-	-	-	-	300

JUSTIFICATION

Access security to City facilities is a necessity of municipal operations. Having card-swipe access available at key locations provides greater efficiency and accountability than could be provided with any other system. Because the current system is no longer supported by the manufacturer, replacement is required.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**5**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**5**

OFFSETTING REVENUE:

CITY OF BRENTWOOD, TENNESSEE			CAPITAL IMPROVEMENTS PROGRAM
PROJECT	Software Systems	Account #	311-45300-6002(GEMS), 6006 (specialized software), 6011 (Website), 310-41640-89550 (ERF)
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Technology

DESCRIPTION

This project provides for the implementation and/or replacement of basic software required for city-wide operating systems and specialized departmental software to better handle day to day work tasks. For example, specialized software would include general ledger and payroll systems, codes and development tracking, court management, agenda management, website, etc.

STATUS

Funding in FY 2017 was provided for a replacement fire station alerting system known as Locution ($180,000), which included an interface to the CAD system ($750,000, funded under Emergency Communications) . Both projects were completed in early 2017. FY 2017 also included completion of the website update ($15,000). Funding in FY 2020 is provided for potential replacement of the City's enterprise accounting software package known as GEMS ($500,000). The actual cost of that software will depend on whether the system can be upgraded by the current vendor, or a new software package must be acquired. Future funding is provided for miscellaneous software licensing.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Miscellaneous Software			25	15	15	15	15	85
Specialized Department Software	195							
Finance Software				500				500
TOTAL EXPENDITURES	195	-	25	515	15	15	15	585
SOURCE OF FUNDS								
Capital Projects Fund	195							
General Fund				500				500
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division		-	25	15	15	15	15	85
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	195	-	25	515	15	15	15	585

JUSTIFICATION

In an effort to maximize effective and efficient use of computer technology, the implementation of the latest computer operating systems and specialized software is essential. Such systems provide the ability to better coordinate information flow, automate manual processes, and provide more timely, accurate and useful information to citizens and improved service delivery. Specialized software systems, while significant in cost on the front-end, normally have a useful life span of 10+ years. The acquisition of Locution for replacement station alerting software will provide an improved tone-out process at all Brentwood fire stations.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**15**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**15**
OFFSETTING REVENUE:	

PROJECT Warning Sirens **Account #** 311-45300-6001

PROGRAM Technology **RESPONSIBLE DEPARTMENT** Technology

DESCRIPTION This project provides for periodic expansion of the City's outdoor emergency warning siren system as needed to fill any gaps in coverage area and to serve newly developed areas.

STATUS No new locations for additional sirens have been identified at this time. Periodic funding is provided in future years for expansion or replacement sirens as may be needed.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Warning Siren			35		35		35	105
TOTAL EXPENDITURES	-	-	35	-	35	-	35	105
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			35		35		35	105
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	-	35	-	35	-	35	105

JUSTIFICATION

The City's outdoor warning system is an important public safety protection tool when turbulent weather occurs in the Middle Tennessee region. Expansion of the system is done as needed to fill any coverage gaps identified through periodic testing as well as to serve new areas as development occurs.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

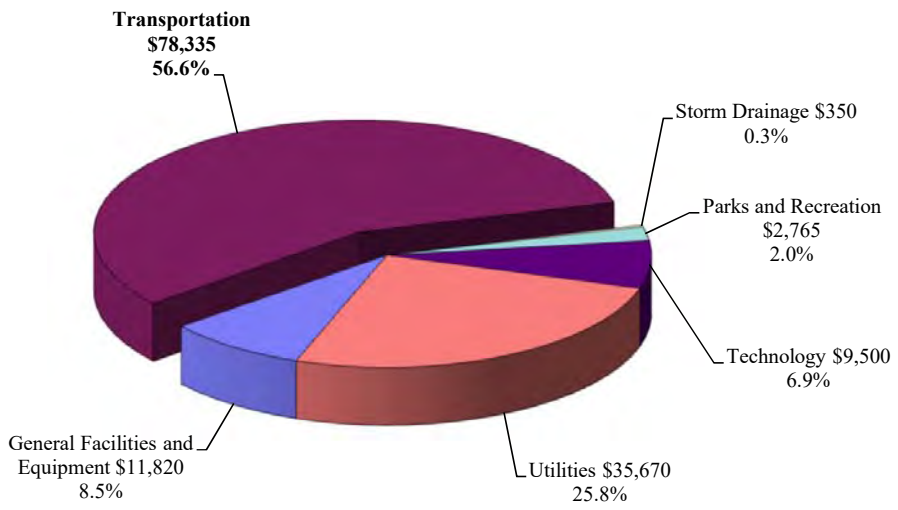
Personnel Services	
Operating Expenditures	**1**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**1**

OFFSETTING REVENUE:

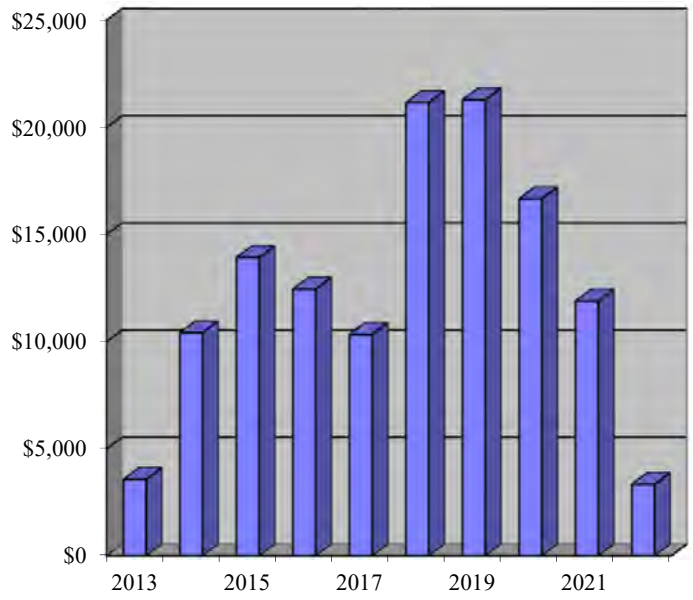
TRANSPORTATION

TRANSPORTATION

FISCAL YEARS 2018-2023



Amounts in 000's



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Transportation - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
ADA Retrofits	90	-	-	100	200	200	-	500
Bike and Pedestrian Projects	50	655	500	350	350	350	350	2,555
Carothers Parkway	205	-	-	-	-	-	-	-
Concord Road (west of Arrowhead Drive)	130	-	-	-	-	-	-	-
Concord Road (east of Edmondson Pike)	1,000	-	-	-	-	-	-	-
Crockett Road	70	700	250	-	-	-	-	950
Franklin Road (south section)	2,620	11,225	15,500	10,300	-	-	-	37,025
Mallory Lane	-	75	-	500	-	-	-	575
McEwen Drive	-	-	-	-	8,960	-	630	9,590
Ragsdale Road	-	-	-	-	-	400	600	1,000
Split Log Road	10	740	-	-	-	-	-	740
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	2,930	2,200	2,200	2,200	2,200	2,200	2,200	13,200
Sunset Road	3,015	5,220	2,640	3,025	-	-	-	10,885
Traffic Signal Upgrades	225	340	175	175	175	175	175	1,215
Grand Total	**10,345**	**21,155**	**21,285**	**16,670**	**11,905**	**3,345**	**3,975**	**78,335**

Source of Funds

Capital Projects Fund	4,555	4,000	1,940	825	3,500	300	300	10,865
General Fund	760	760	1,655	1,355	1,455	1,855	1,855	8,935
General Fund - Unrestricted Balance	-	-	-	-	5,760	-	-	5,760
G O Bond Proceeds	1,000	3,900	-	-	-	-	-	3,900
Facilities Maintenance Division	-	50	50	50	50	50	50	300
Private Sources	-	25	-	-	-	-	630	655
Public Works Project Fund	1,000	600	1,000	3,000	-	-	-	4,600
Inter-Governmental Sources	1,165	10,450	15,500	10,300	-	-	-	36,250
State Street Aid Fund	1,780	1,140	1,140	1,140	1,140	1,140	1,140	6,840
Water and Sewer Fund	85	230	-	-	-	-	-	230
Grand Total	**10,345**	**21,155**	**21,285**	**16,670**	**11,905**	**3,345**	**3,975**	**78,335**

PROJECT	**ADA Retrofits**	**Account #**	**311-43100-1043**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for modifications to intersection curb ramps, pedestrian signals, sidewalks, municipal parking lots, and other facilities that may be identified as needing improvement by the City's Americans with Disabilities Act Transition Plan. The goal of the Transition Plan is to maximize the safety and usability of Brentwood's pedestrian facilities for those with disabilities.

STATUS

FY 2017 funding ($90,000) included ADA curb ramp retrofits in the northern commercial area of the City that were identified in the joint Brentwood/Metro traffic study. The ADA Transition Plan is being developed now, with implementation expected in FY 2019. New retrofit projects will begin on a highest-priority-first basis in FY 2020 and will continue until all infrastructure projects on the list have been completed. Tentative funding ($500,000) is shown in FY 2020 - FY 2022 for implementation of the identified improvements.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	90			100	200	200		500
TOTAL EXPENDITURES	90	-	-	100	200	200	-	500
SOURCE OF FUNDS								
Capital Projects Fund	90							
General Fund				100	200	200		500
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	90	-	-	100	200	200	-	500

JUSTIFICATION

The Americans with Disabilities Act, enacted in 1993, requires that individuals with disabilities are not excluded from programs, services, and activities. Title II agencies, such as TDOT, counties, and cities, are required to develop ADA Transition Plans. The City of Brentwood's plan will establish a local ADA Coordinator, public notice requirements, and greivance procedures, as well as identifying barriers to access. A schedule for correcting the barriers and funding mechanisms will also be established.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

(When fully completed)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Bike and Pedestrian Projects**	**Account #**	**311-43100-1001**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Parks/Recreation**

DESCRIPTION

This project provides for the extension of off-road bikeways and sidewalks in the City to connect city parks, neighborhoods, schools and other primary points of interest. This project is in addition to separated bikeway segments that are included as part of certain new roadway projects. This project also provides for the periodic repaving of older trail sections.

STATUS

Funding was provided in FY 2017 to connect the Forest of Brentwood and Waterford neighborhoods to Scales Elementary via the new Avery subdivision. This project will likely carryover into the first part of FY 2018.

FY 2018 funding includes a developer funded trail connection along Crockett Rd. from the Witherspoon subdivision across the front of the Somerset subdivision ($25,000). FY 2018 also includes funding for existing trail overlays ($50,000), sidewalk replacement in the Montclair subdivision ($30,000), an east-west trail connectivity route study as recommended by the Bike/Ped committee ($50,000), system expansion ($100,000) including a short trail extension south of Split Log road along Wilson Pike and a potential sidewalk connection from Tuscany Hills to the new elementary school site on Split Log Road.

Funding ($450,000) for the possible Maryland Farms Greenway Trail, if approved, is provided in FY 2018 ($300,000) and 2019 ($150,000), subject to a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. FY 2019 and beyond includes $300,000 annually for trail and sidewalk expansion projects plus $50,000 a year for asphalt overlays on existing trails.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	10	80	20	20	20	20	20	180
Right of Way Acquisition								
Utility Relocation								
Construction	40	575	480	330	330	330	330	2,375
TOTAL EXPENDITURES	50	655	500	350	350	350	350	2,555
SOURCE OF FUNDS								
Capital Projects Fund	50	580						580
General Fund			450	300	300	300	300	1,650
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		50	50	50	50	50	50	300
Private Sources		25						25
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	50	655	500	350	350	350	350	2,555

JUSTIFICATION

Bikeway improvements are a high priority in the Brentwood 2020 Plan. It allows the community to become more pedestrian oriented and provides an alternative to vehicular travel between key destinations such as parks, schools, library, etc. The pathways also provide recreational opportunities for residents and enhances the desirability of neighborhoods and overall quality of life in Brentwood. The ultimate goal is to have a City-wide bikeway system consisting of both off-road trails and on-road bike lanes as well as an expanded sidewalk network.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

(When fully completed)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Carothers Parkway**	**Account #**	**311-43100-1038**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provided for the addition of a new dedicated right turn lane on northbound Carothers Parkway onto eastbound Moore's Lane. This new lane allows for two northbound thru lanes to continue from Carothers to westbound Moore's Lane toward I-65. The turn lane is approximately 250 feet in length. Also included in this scope is a retrofit to the storm drains to relieve a drainage problem in the northbound Carothers through lane.

STATUS

Construction of this improvement was completed late summer of 2016.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	205							
TOTAL EXPENDITURES	205	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	205							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	205	-	-	-	-	-	-	-

JUSTIFICATION

Peak-hour traffic volumes cause considerable queuing of northbound traffic at this intersection due only one northbound thru lane being available. The addition of this turn lane will improve vehicular flow by allowing for two thru lanes for northbound traffic to proceed west on Moores Lane. This is one of several identified high impact/low cost projects to help relieve congestion on Brentwood roadways - a top concern identified by residents as part of the Brentwood 2030 Update.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): **0**

OFFSETTING REVENUE:

PROJECT	**Concord Road (west of Arrowhead Drive)**	**Account #**	**311-43100-1021**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for improvements to a substandard section of Concord Road between Jones Parkway and Arrowhead Drive. Included is a 3 lane, curb and gutter road section, a separated bikeway on the south side of the road from Arrowhead Drive to Wilson Pike, a sidewalk on the north side from Arrowhead Drive to Jones Parkway, and the relocation of affected utilities.

STATUS

The City paid 100% for design and ROW acquisition plus a 20% local match of construction and utility relocation costs to secure $3.64 million in Federal funding that was allocated through the MPO. With regards to City utilities, this project required the relocation of 1,800 linear feet of 12" ductile iron water line with a portion of the cost subject to reimbursement from federal funds. Construction was completed in late summer of 2016.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	130							
TOTAL EXPENDITURES	130	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	25							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	105							
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	130	-	-	-	-	-	-	-

JUSTIFICATION

This substandard section of Concord Road has two 10-foot wide lanes, no shoulders and severe vertical/horizontal curves. It is inadequate to safely handle increased traffic on this critical east/west arterial road in the center of Brentwood. With the improvements by TDOT to Concord Road - east of Sunset Road, this is the only remaining substandard section of Concord Road from Franklin Road to Nolensville Road. A three lane roadway design will be consistent with roadways sections that have been improved from Arrowhead Drive east to Nolensville Road.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	
Debt Service	**0**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

(Concord Road is the maintenance responsibility of TDOT)

OFFSETTING REVENUE:

PROJECT	**Concord Road (east of Edmondson Pike)**	**Account #**	**311-43100-1003**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for improvements to a 3.6 mile section of Concord Road from Edmondson Pike to Nolensville Road. The project will include a continuous three (3) lane pavement section with curb and gutter within a 94 foot wide ROW. Also included will be a continuous ten (10) foot wide separated bikeway/walkway built a minimum four (4) feet behind the south curb of the road. The City was also required by TDOT to purchase extra ROW along the north side to permit future expansion of the road to a five (5) lane section.

STATUS

The City paid for engineering services and ROW acquisition within Brentwood and TDOT is paid for all utility relocations/road construction and ROW acquisition outside of Brentwood. Construction on Phase 2 from Sunset Rd. to the eastern city limits was completed in the fall of FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	1,000							
TOTAL EXPENDITURES	1,000	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	1,000							
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	1,000	-	-	-	-	-	-	-

JUSTIFICATION

The existing roadway section, with two 10-foot wide lanes, no shoulders and severe horizontal and vertical curves, is the primary east/west arterial road serving the fast growing areas of east Brentwood, Nolensville, south Davidson County, and Rutherford County. It is inadequate to safely handle increased traffic demands and provides no alternative travel option for bicycles and pedestrians. Local funding for design and ROW acquisition was essential for receiving a commitment by TDOT to fund utility relocations and reconstruction of this State highway.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	
Debt Service	**0**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

(Concord Road is the maintenance responsibility of TDOT)

OFFSETTING REVENUE:

PROJECT	**Crockett Road**	**Account #**	**311-43100-1042**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for improvements to Crockett Road, an arterial road that serves as the primary access route for several subdivisions, two schools, and Crockett Park. Currently programmed projects include installation of a roundabout at the intersection with Green Hill Blvd. and Raintree Parkway and possible improvements at the intersection with Volunteer Parkway and Aberdeen Drive.

STATUS

Engineering for the roundabout design began in spring 2016, with construction scheduled to begin in the summer of 2017, subject to relocation of affected utilities, including a city water line, in a timely manner. Funding in the amount of $560,000 has previously been reserved in the Capital Projects Fund for this project. An additional $100,000 is proposed to be added via a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. The city's traffic consultant is analyzing the intersection at Aberdeen/Volunteer Parkway to identify possible improvements to improve peak school traffic flow. Funding is tentatively programmed in FY 2019 for possible improvements at this intersection.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	55	15	30					45
Right of Way Acquisition	15							
Utility Relocation		135						135
Construction		550	220					770
TOTAL EXPENDITURES	70	700	250	-	-	-	-	950
SOURCE OF FUNDS								
Capital Projects Fund	70	565						565
General Fund			250					250
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund		135						135
TOTAL FUNDS	70	700	250	-	-	-	-	950

JUSTIFICATION

Crockett Road is an arterial road that serves residential subdivisions, schools, churches, and parks. Peak-hour traffic volumes create congestion at various intersections. Improvements at these intersections are needed to allow traffic to flow better and improve safety.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	
Debt Service	**0**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**
OFFSETTING REVENUE:	

PROJECT	**Franklin Road (south section)**	**Account #**	**311-43100-1016**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for the widening of 2.2 miles of Franklin Road from West Concord Road south to Moores Lane. The proposed improvements include a curb and gutter section with four (4) driving lanes plus a continuous center turn lane. In addition, the project will include a 10 ft. wide separated bikeway/walkway on the east side of the road built about 5 feet behind the curb.

STATUS

The City is paying for engineering and a portion of ROW acquisition with TDOT paying for utility relocations and construction cost. Preliminary engineering work is complete. ROW appraisals and acquisition are underway and expected to be completed by fall of 2016. TDOT construction funding is programmed at $33,835,000. City funding for ROW acquisition costs is currently available in the Capital Projects Fund as budgeted in prior years. City utility relocation costs will be approximately $2.0 million, of which about 85% should be reimbursed from TDOT. Estimates for utility relocation are subject to change due to pipe sizing requirements of the forthcoming Master Plan.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	235							
Right of Way Acquisition	2,300	860						860
Utility Relocation	85	2,365						2,365
Construction		8,000	15,500	10,300				33,800
TOTAL EXPENDITURES	2,620	11,225	15,500	10,300	-	-	-	37,025
SOURCE OF FUNDS								
Capital Projects Fund	2,510	860						860
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	25	10,270	15,500	10,300				36,070
State Street Aid Fund								
Water and Sewer Fund	85	95						95
TOTAL FUNDS	2,620	11,225	15,500	10,300	-	-	-	37,025

JUSTIFICATION

Improvement of this major north/south arterial route running parallel to and west of I-65 is a high priority in the City's Major Thoroughfare Plan and the Brentwood 2020 Plan. The widening will be needed to handle the projected future traffic demand and to reduce delays between the north Brentwood area and Cool Springs area. When completed, all sections of Franklin Road inside the City limits will be a 5 lane roadway section.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

(Franklin Road is the maintenance responsibility of TDOT)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT Mallory Lane **Account #** 311-43100-1043

PROGRAM Transportation **RESPONSIBLE DEPARTMENT** Public Works

DESCRIPTION

This project provides for intersection improvements along Mallory Lane to address traffic congestion and safety concerns given the expected increase in traffic from build out of the Mallory Park office park and the opening of the Flagpole Park.

STATUS

Funding is provided in FY 2018 for the Commerce Way intersection improvements ($75,000), subject to a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. Design is expected to be done in the fall of 2017 with construction completed by spring of 2018. Funding is provided in FY 2020 ($500,000) for the addition of one southbound left turn lane at Moore's Lane. Construction of the southbound turn lane at Moore's Lane will be dependent upon traffic demand.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering		10		50				60
Right of Way Acquisition								
Utility Relocation								
Construction		65		450				515
TOTAL EXPENDITURES		75	-	500				575
SOURCE OF FUNDS								
Capital Projects Fund		75		500				575
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	75	-	500	-	-	-	575

JUSTIFICATION

Mallory Lane has experienced an increase in traffic with the opening of the new car dealerships and office buildings in the Mallory Park office park, as well the City's new Flagpole Park at the north end of Mallory Lane. Modifications are needed to the intersection of Mallory Lane and Commerce Way to improve traffic flow and reduce potential conflicts with adjacent driveways. Additional improvements at the intersection of Mallory Lane and Moore's Lane will be considered in the future depending on actual traffic volumes.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

(When fully completed)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**McEwen Drive**	**Account #**	**311-43100-1033**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for the City's payment to the City of Franklin for Brentwood's proportionate share of design engineering and construction of the proposed extension of McEwen Drive in Franklin from Wilson Pike to the Taramore subdivision, pursuant to the 2011 amended agreement between the cities of Brentwood and Franklin and subsequent litigation with adjacent developers. The City of Franklin is to complete the construction within 24 months of receipt of the required funds from Brentwood. Extension of the road through the Taramore subdivision will be undertaken by the City and funded via a developer contribution.

STATUS

Timing of this project is contingent upon McEwen Drive improvements in the City of Franklin from the intersection of Cool Springs Blvd east to Wilson Pike. Proposed funding sources at this time include $3.2 million in available funds within the Capital Projects Fund that were previously allocated for the Sunset Road/Ragsdale Road intersection project and an approximately $5.8 million draw down from the undesignated General Fund reserve balance.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Right of Way								
Utility Relocation								
Construction					8,960		630	9,590
TOTAL EXPENDITURES	-	-	-	-	8,960	-	630	9,590
SOURCE OF FUNDS								
Capital Projects Fund					3,200			3,200
General Fund								
General Fund (Unreserved Balance)					5,760			5,760
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources							630	630
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	-	-	-	8,960	-	630	9,590

JUSTIFICATION

The extension of McEwen Drive has been identified as a priority in the Brentwood 2030 Plan. Completion of this roadway section in the future would provide a direct link from the new I-65 interchange to the Taramore subdivision. When this section is built, it opens the possibility of further extension to Pleasant Hill Road and Clovercroft Road, providing an alternative east/west route for traffic from Nolensville & Smyrna to reach the Cool Springs area. Such an extension would help relieve traffic flow on Brentwood streets such as Concord Road, Crockett Road, Moores Lane, Split Log Road, etc.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Ragsdale Road**	**Account #**	**311-43100-1050**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for the widening of Ragsdale Road between the intersection with Split Log Road and the Glen Ellen subdivision. The widened roadway would be 3-lane curb and gutter road with a center turn lane and intermittent raised median. A 10-foot bike/pedestrian path behind a 5-foot grass strip would also be included.

STATUS

Funding is programmed beginning in FY 2022 for design of this project ($1,000,000). Right-of-way acquisition and construction (currently estimated around $9,000,000) is beyond the six-year scope of this CIP.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering						400	600	1,000
Right of Way Acquisition								
Utility Relocation								
Construction								
TOTAL EXPENDITURES	-		-	-	-	400	600	1,000
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund						400	600	1,000
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	-	-	-	-	400	600	1,000

JUSTIFICATION

Increasing traffic in southeast Brentwood, both from developments within city limits and from areas east and south of Brentwood, is causing this previously low-volume rural roadway to become more heavily traveled. The current design of the roadway in terms of right-of-way width, shoulders, and horizontal/vertical curves necessitates eventual improvements to accommodate the increased volume and provide for safe passage of motorists.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service
(If funded with bonds, then debt service payments would be required)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Split Log Road**	**Account #**	**311-43100-1044**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for improvements to the three-way intersection at Split Log Road and Ragsdale Road. This intersection currently experiences delays during peak traffic periods, and the increase in traffic related to the fall 2018 opening of the new K-5 elementary school on Split Log Road, as well as the eventual opening of a middle school at the same location, will necessitate improvements to the intersection to accommodate peak-hour turning movements.

STATUS

Preliminary traffic and engineering analysis work is proposed to begin late in FY 2017. This work will identify design options for this intersection. FY 2018 funding is provided for design engineering and construction ($740,000), subject to a FY 2017 year-end transfer from General Fund excess revenues to the Capital Projects Fund. Design engineering is expected to be completed in the fall of 2017, with construction scheduled for spring/summer of 2018.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	10	50						50
Right of Way Acquisition		40						40
Utility Relocation								
Construction		650						650
TOTAL EXPENDITURES	10	740	-	-	-	-	-	740
SOURCE OF FUNDS								
Capital Projects Fund	10	740						740
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	10	740	-	-	-	-	-	740

JUSTIFICATION

Split Log Rd. is an important east/west arterial road in the southeast section of the City. This area is experiencing significant residential development and will also be impacted by the new schools planned at the intersection with Pleasant Hill Road. This road is becoming an alternative route to Moores Lane in reaching the Cool Springs area via McEwen Drive (from Wilson Pike west to Cool Springs Blvd and I-65).

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Street Lighting**	**Account #**	**110-43160-89505** **311-43100-1030**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This program provides for the installation of new and/or improved roadway lighting and other associated upgrades, primarily along arterial or collector roads and within the commercial districts.

STATUS

No project has been identified for FY 2018. Future funding is allocated for projects if and when they are identified. Potential future projects include retrofitting existing street lights to LED fixtures. Pricing is expected to improve as more cities implement LED street lights and more suppliers enter the market.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Construction	-		20	20	20	20	20	100
TOTAL EXPENDITURES	-		20	20	20	20	20	100
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund	-		20	20	20	20	20	100
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	-	20	20	20	20	20	100

JUSTIFICATION

This program provides for the incremental enhancement of street lighting capabilities in high traffic areas of the city to improve driver and pedestrian safety and meet other beautification objectives. Lighting under this program typically requires underground electric service and is separate from the periodic installation of new cobra head lights on existing power poles.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Street Resurfacing**	**Account #**	**121-43120-82640**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for the annual resurfacing of City streets under the City's pavement management system. The actual streets are determined in accordance with an annual field assessment which prioritizes resurfacing based on the need for repairs.

STATUS

FY 2017 included an increase of $100,000 from the State Street Aid Fund due to increased revenues as a result of the FY 2015 special census. This increased the annual budget amount for paving across all funds to $2,200,000. FY 2017 funding also included $640,000 in carry-forward funds from FY 2016 for resurfacing of Maryland Way, as well as $90,000 for a comprehensive video condition assessment of all city maintained streets to establish a new baseline for future resurfacing planning.

The proposed funding for FY 2018 maintains the current funding level of $2.2 million. Funding from FY 2019-2023 assumes a continuation of an annual $300,000 transfer from the General Fund to the Capital Projects Fund. Future year allocations could increase should a transportation related funding program that includes a local share be approved by the state legislature this spring.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Professional Services	90							
Construction	2,840	2,200	2,200	2,200	2,200	2,200	2,200	13,200
TOTAL EXPENDITURES	2,930	2,200	2,200	2,200	2,200	2,200	2,200	13,200
SOURCE OF FUNDS								
Capital Projects Fund	390	300	300	300	300	300	300	1,800
General Fund	760	760	760	760	760	760	760	4,560
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund	1,780	1,140	1,140	1,140	1,140	1,140	1,140	6,840
Water and Sewer Fund								
TOTAL FUNDS	2,930	2,200	2,200	2,200	2,200	2,200	2,200	13,200

JUSTIFICATION

Increased annual funding is essential for the City to meet its goal of resurfacing all City streets every 20 years. The use of a pavement management system and systematic annual funding increases for this program help reduce routine maintenance and repairs to City streets. Unfortunately, without a funding increase from the state, the City will be forced to either maintain a level funding plan for the next six years or increase the General Fund contribution to this program. At present, there are over 430 lane miles of City maintained streets. This excludes state routes maintained by TDOT.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	10
Debt Service	
(annual resurfacing helps reduce routine maintenance expenses)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	10

OFFSETTING REVENUE:

PROJECT	**Sunset Road**	**Account #**	**311-43100-1027**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for improvements to Sunset Road from Concord Road to Waller Road, including relocation of the dangerous intersection with Ragsdale Road which is the site of frequent vehicular accidents.

STATUS

Planned improvements provide for relocation of the intersection approximately 800 feet to the east along Sunset Road. The intersection project also includes widening and realignment of approximately three-fourths of a mile of Ragsdale Road back to the Glenellen subdivision to eliminate the sharp horizontal curve where Ragsdale Road crosses Owl Creek, and widening and realignment of approximately one-fourth mile of Sunset Road, including a new bridge over Owl Creek. Construction began spring of 2017 and should be complete by the end of calendar year 2018. Funding for the estimated $9.9 million project includes $3.4 million from unrestricted General Fund reserves in FY 2016, $1.6 million in Public Works Project Fees generated by new development ($1 million in FY 2017 and $600,000 in FY 2018), and $4.9 million in G.O. Bonds from a planned calendar 2017 bond issue.

Planned improvements beginning in FY 2019 include widening of Sunset Road from the new bridge north to Concord Road, to be funded primarily with $4 million in Public Works Project Fees. Funding ($300,000) for engineering design work on Phase 2 up to Concord Road is subject to a special year-end transfer of excess revenues from the General Fund to the Capital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	315	320	140	25				485
Right of Way Acquisition	1,700	400	500					900
Utility Relocation								
Construction	1,000	4,500	2,000	3,000				9,500
TOTAL EXPENDITURES	3,015	5,220	2,640	3,025	-	-	-	10,885
SOURCE OF FUNDS								
Capital Projects Fund	1,015	720	1,640	25				2,385
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds	1,000	3,900						3,900
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund	1,000	600	1,000	3,000				4,600
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	3,015	5,220	2,640	3,025	-	-	-	10,885

JUSTIFICATION

Sunset Road is an important arterial road in east Brentwood given the growth in residential neighborhoods in this area and the presence of Sunset Elementary and Middle schools just east of Waller. The Sunset Road connection to Ragsdale Road provides an important route to Wilson Pike, Ravenwood High School, and eventually to Cool Springs, and serves to relieve some traffic on Concord Road.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	
Debt Service	**340**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**340**
OFFSETTING REVENUE:	

PROJECT	**Traffic Signal Upgrades**	**Account #**	**311-43100-1007**
PROGRAM	**Transportation**	**RESPONSIBLE DEPARTMENT**	**Public Works**

DESCRIPTION

This project provides for the installation of new traffic signals with mast arm poles and underground wiring, repair and upgrades to existing signal installations and equipment, and signal synchronization studies.

STATUS

Funding in FY 2017 included installation of a new traffic monitoring camera at Moore's Lane and I-65, initiation of a federally funded signal timing study of Concord Road, Moore's Lane, Wilson Pike and Murray Lane corridors, ten battery back-up systems, and replacement of 24 traffic monitoring cameras.

Funding in FY 2018 is provided for completion of the signal timing study, video detection equipment at Concord/Knox Valley ($25,000), signal head replacement at the schools on Murray Lane ($15,000), replacement of 20 out of 47 ethernet switches ($60,000), and battery backups on Maryland Way ($60,000). Funding for these improvements is subject to a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. Future funding is allocated for equipment repairs and upgrades (signal heads, video detection, cabinets, electronics, etc.) as may be needed from year to year ($175,000).

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	35	180						180
Equipment Upgrades	190	160	175	175	175	175	175	1,035
Extraordinary Repairs								
Construction								
TOTAL EXPENDITURES	225	340	175	175	175	175	175	1,215
SOURCE OF FUNDS								
Capital Projects Fund	190	160						160
General Fund			175	175	175	175	175	875
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	35	180						180
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	225	340	175	175	175	175	175	1,215

JUSTIFICATION

Efficient operation of traffic signals represents one of the most cost effective methods for improving traffic flow within the City. Insuring that signal equipment is upgraded when necessary and that signal capabilities are maximized through improved technologies is a key component to addressing traffic concerns. Also, continued growth in the City and surrounding areas will likely require additional signals in the future at warranted intersections.

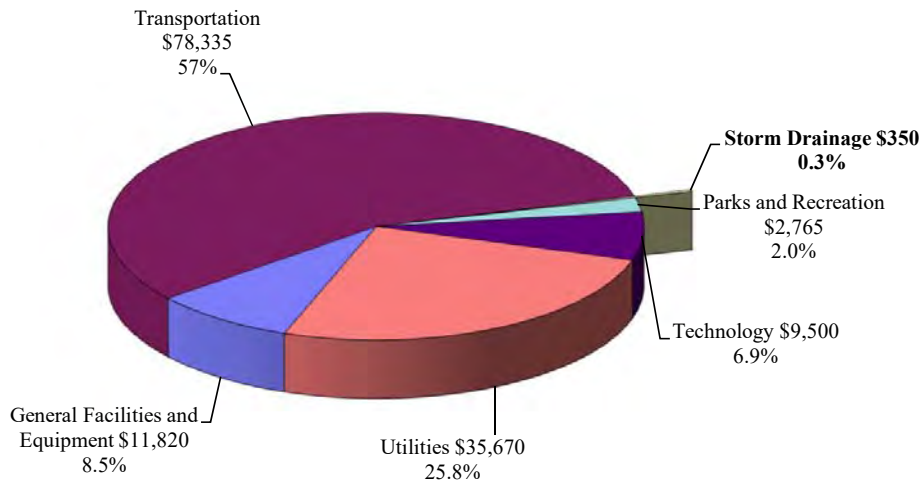
PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	10
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	10

OFFSETTING REVENUE:

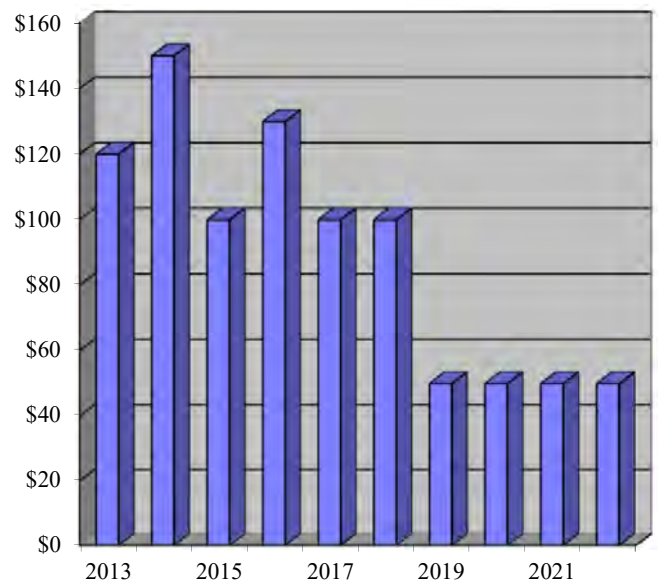
STORM DRAINAGE

STORM DRAINAGE

FISCAL YEARS 2018-2023



Amounts in 000's



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Storm Drainage Program - Summary
(000's)

Projects	**Projected FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**Total 6 Years 2018-2023**
Derby Glen	50	-	-	-	-	-	-	-
Johnson Chapel Road	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	**100**	**100**	**50**	**50**	**50**	**50**	**50**	**350**

Source of Funds								
Capital Projects Fund	50	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	**100**	**100**	**50**	**50**	**50**	**50**	**50**	**350**

PROJECT Derby Glen **Account #** 311-43150-2007

PROGRAM Storm Drainage **RESPONSIBLE DEPARTMENT** Public Works

DESCRIPTION This project will replace 320 feet of corrugated metal pipe with ADS plastic pipe on Canterbury Close in the Derby Glen subdivision. Included is regrading approximately 800 linear feet of drainage ditch at the rear of several homes in the 6300 block of Canterbury Close.

STATUS Drainage work will typically be scheduled for the drier, summer months. This work is expected to be complete in late spring of 2017.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering Services								
Construction	50							
TOTAL EXPENDITURES	50	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	50							
General Fund								
G O Bond Proceeds								
TOTAL FUNDS	50	-	-	-	-	-	-	-

JUSTIFICATION **This metal storm drain pipe in this location has exceeded its useful life and is failing.**

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for department)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT Johnson Chapel Road **Account #** 311-43150-2013

PROGRAM Storm Drainage **RESPONSIBLE DEPARTMENT** Public Works

DESCRIPTION This project will replace 60 feet of 30"x 45" metal pipe with reinforced concrete pipe adjacent to Deerwood Lane. The current pipe has deteriorated beyond repair, necessitating replacement of the pipe and headwall.

STATUS Funding is provided in FY 2018 for this project ($50,000). Drainage work will typically be scheduled for the drier, summer months. This work is expected to be complete in late spring of 2018.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering Services								
Construction		50						50
TOTAL EXPENDITURES	-	50	-	-	-	-	-	50
SOURCE OF FUNDS								
Capital Projects Fund		50						50
General Fund								
G O Bond Proceeds								
TOTAL FUNDS	-	50	-	-	-	-	-	50

JUSTIFICATION **This metal storm drain pipe in this location has exceeded its useful life and is failing.**

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for department)

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT Subdivision Drainage **Account #** 110-43150-89440

PROGRAM Storm Drainage **RESPONSIBLE DEPARTMENT** Public Works

DESCRIPTION This project provides annual funding in the Public Works Department General Fund budget to correct miscellaneous, minor storm drainage problems as identified by complaints and field inspection throughout the year.

STATUS In order to minimize property damage and clean up/restoration efforts, this work is typically done in the drier, summer months.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering Services								
Construction	50	50	50	50	50	50	50	300
TOTAL EXPENDITURES	50	50	50	50	50	50	50	300
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds								
TOTAL FUNDS	50	50	50	50	50	50	50	300

JUSTIFICATION

The potential for localized, nuisance type flooding outside the legally designated flood plains is reduced by proactively addressing drainage deficiencies in the City. This annual effort lowers routine maintenance cost and labor for the Public Works Department and has reduced the number of drainage complaints from property owners in recent years.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for department)

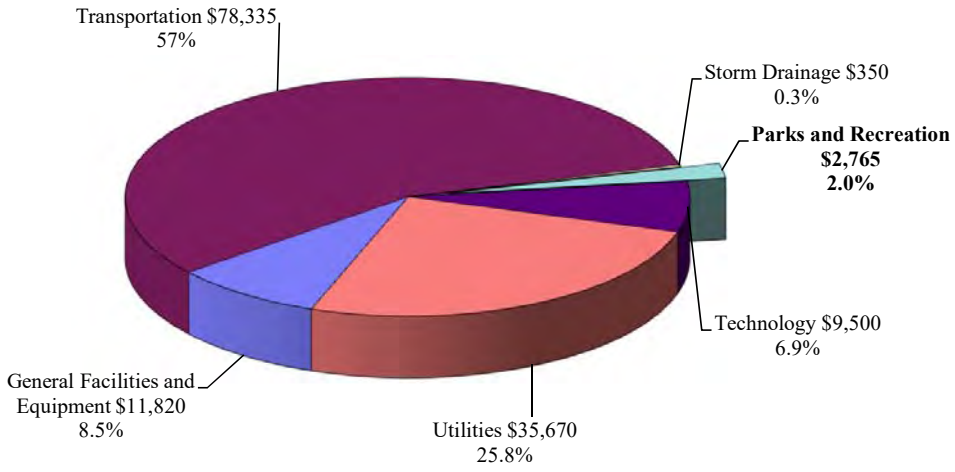
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

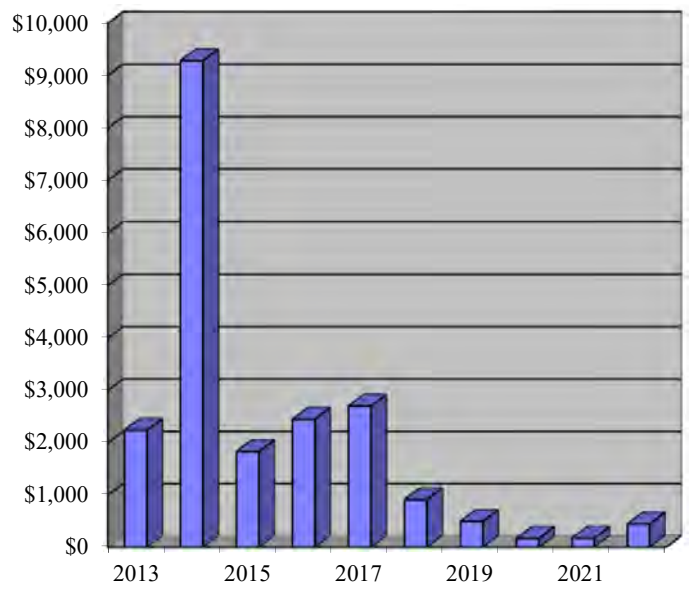
PARKS and RECREATION

PARKS AND RECREATION

FISCAL YEARS 2018-2023



Amounts in 000's



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Parks and Recreation Program - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
Concord Park	5	-	-	-	-	-	-	-
Crockett Park	85	115	80	90	75	250	475	1,085
Deerwood Arboretum	15	-	-	40	-	-	-	40
Flagpole & Wikle Parks	320	20	25	-	-	-	-	45
Granny White Park	50	-	15	35	100	145	30	325
Marcella Vivrette Smith Park	2,170	770	150	-	-	50	-	970
Maryland Way Park	-	-	150	-	-	-	-	150
Owl Creek Park	60	-	75	-	-	-	60	135
River Park	-	10	-	5	-	-	-	15
Grand Total	**2,705**	**915**	**495**	**170**	**175**	**445**	**565**	**2,765**
Source of Funds								
Capital Projects Fund	945	790	-	-	-	-	-	790
General Fund	-	115	325	-	-	225	400	1,065
General Fund - Unrestricted Balance	1,500	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Facilities Maintenance Division	185	10	170	170	175	220	165	910
Private Sources	75	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	**2,705**	**915**	**495**	**170**	**175**	**445**	**565**	**2,765**

PROJECT	**Concord Park**	**Account #**	**311-44400-3007**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for periodic improvements to Concord Park, which includes the Civitan parking lot and walking trails adjacent to the Library.

FY 2017 improvements included the addition of solar lighting to the trail area in front of the library following the City Commission completing a rezoning process to remove the special restriction prohibiting lighting of the trail. No additional improvements are currently scheduled within the timeframe of the CIP.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Fields, Courts etc.								
Buildings, Facilities, etc.	5							
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	5	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	5							
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	5	-	-	-	-	-	-	-

JUSTIFICATION

Concord Park totals 38.7 acres and includes the Brentwood Library campus, walking trails, and the parking lot serving the Civitan ball fields. The trail in front of the Library connects the northwest section of the Brenthaven neighborhood to the City's main trail system and experiences significant pedestrian use. Installation of solar lighting pedestals will allow for safe, nighttime use of this trail segment.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): **0**

(Lights will be solar powered so no electrical cost)

OFFSETTING REVENUE:

PROJECT	**Crockett Park**	**Account #**	**311-44400-3001**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for periodic improvements to the 164 acre comprehensive park. The park has baseball, soccer & football fields, tennis courts, playground, paved multi-use trails, the Eddy Arnold outdoor amphitheater, picnic shelters, parking & restroom facilities, the Cool Springs House and other historic structures, a disc golf course, open space, and the Williamson County Indoor Soccer Arena.

STATUS

FY 2017 funding included conversion to energy efficient T-8 lights on remaining facilities ($10,000), relamping sports field lighting ($30,000), cleaning of the amphitheater roof ($25,000), replacement of the insulation at the maintenance shop ($10,000), replacement of gutters at the tennis center, and concrete step repairs ($10,000).

FY 2018 funding includes a new multipurpose field trail connection ($50,000), widening of the trail by the community playground ($25,000), and installation of a small playground at the picnic shelter ($35,000). Funding in future years is shown to ensure the facilities are maintained at the current high standards. Two large future projects include tentative replacement of the community playground in FY 2022 ($175,000) and replacement of the amphitheater roof ($400,000).

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	85	115	80	90	75	250	475	1,085
Furniture/Equipment								
Landscaping/Trees								
Utilities								
TOTAL EXPENDITURES	85	115	80	90	75	250	475	1,085
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund		115				175	400	690
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	85		80	90	75	75	75	395
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	85	115	80	90	75	250	475	1,085

JUSTIFICATION

This comprehensive park was substantially built from 1992 to 1996 and is the primary location for the active recreational programs in Brentwood, with a special emphasis on the youth of the community. Systematic improvements will help maintain the existing facilities in excellent condition & expand the range of services provided to the citizens of Brentwood.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**0**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Deerwood Arboretum**	**Account #**	**311-44400-3008**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for periodic improvements and upgrades to the City's primary "tree" park to make the natural area more attractive and accessible to potential users.

STATUS

Funding is provided here for miscellaneous improvements to Deerwood Arboretum. FY 2017 expenditures included replacement of the split rail fence and painting of the building. Bridge decking replacement is tentatively scheduled for FY 2020 ($40,000).

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Fields, Courts etc.								
Buildings, Facilities, etc.	15			40				40
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	15	-	-	40	-	-	-	40
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	15			40				40
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	15	-	-	40	-	-	-	40

JUSTIFICATION

The 27 acre Arboretum is the City's nature park with its primary focus on maintaining a wide range of native Tennessee trees and habitat for wildlife preservation. Due to its location in an area that was extensively developed prior to 1990, it also serves as the defacto neighborhood park for residents living in west Brentwood.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Flagpole & Wikle Parks**	**Account #**	**311-44400-3013**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for the development of a 24 acre park dedicated to the City in FY 2011 as part of the approval for Phase 2 of the Mallory Park development. The land is located between the CSX railroad on the west and I-65 on the east, and south of Wikle Rd west and General McArthur Drive. Flagpole Park, the southern tract with vehicle access through the Mallory Park commercial development, will be used for active recreation purposes including unlighted athletic practice fields with parking and restroom facilities. Wikle Park is the northern tract adjacent to Wikle Road West and is targeted for more passive use by nearby residents.

STATUS

Construction was completed in the fall of 2016. Funding is provided here for miscellaneous improvements. Funding for additional fencing ($20,000) is programmed in FY 2018. Tentative funding of $25,000 is provided in FY 2019 for sideline netting on the athletic fields in Flagpole Park, if patron use determines it is needed.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	10							
Buildings, Facilities, etc.	290	20						20
Off-Site Improvements								
Equipment	20		25					25
TOTAL EXPENDITURES	320	20	25	-	-	-	-	45
SOURCE OF FUNDS								
Capital Projects Fund	320	20						20
General Fund			25					25
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	320	20	25	-	-	-	-	45

JUSTIFICATION

Development of a park in this area of the City has provided a convenient passive park for nearby residents to use, additional practice fields to better meet the growing demand from youth sports, and fulfilled an objective in the Brentwood 2020 Plan to have a neighborhood park in the southwest area of the City. Continued improvements to enhance the patron experience and provide for proper maintenance are integral to the City's stewardship of this valuable asset.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	**20**
Debt Service	**98**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**118**

(When park area is fully developed and operational)

OFFSETTING REVENUE:

PROJECT	**Granny White Park**	**Account #**	**311-44400-3003**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This 32 acre park located next to Brentwood Middle and High Schools serves the active and passive recreational program needs of adults and youth. It includes 3 ball fields, playground, picnic pavilion, soccer field, 4 tennis courts, paved walking path, green space, and support facilities.

STATUS

FY 2017 funding included repairs and painting of the pavilion ceiling ($10,000), renovation of 2 volleyball courts ($10,000), and replacement of two gazebos ($30,000). No Improvements are scheduled FY 2018. Funding in future years is shown to ensure the facilities are maintained at the current high standards. Two of the larger planned future projects include the lighting replacements at the tennis center in FY 2021 ($100,000) and resurfacing of the parking lot ($145,000).

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	50		15	35	100	145	30	325
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	50	-	15	35	100	145	30	325
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	50		15	35	100	145	30	325
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	50	-	15	35	100	145	30	325

JUSTIFICATION

Extraordinary repairs and improvements are needed periodically to keep this 25 year old park in a safe and attractive condition and to reduce on-going maintenance repairs and associated manpower requirements. The addition of a bathroom facility near the pavilion and the playground which generate large crowds will eliminate the need for users to walk across the park to use the restroom. The existing ball field lighting system requires upgrading to meet existing standards for athletic fields.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

(Extraordinary repairs help reduce on-going maintenance cost)

OFFSETTING REVENUE:	

PROJECT	**Marcella Vivrette Smith Park**	**Account #**	**311-44400-3015**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This 400 acre park includes open pastures, wooded hillsides, the historic Ravenswood home and associated historic outbuildings. Improvements include unlighted multi-purpose fields near the historic home, unpaved hiking trails, a paved multi-use trail connecting to the City's existing trail network, renovation of the Ravenswood house for public use, picnic shelters, and a possible mountain bike trail network. Additional improvements on the 78 acres in the rear of the property will be determined in the future.

STATUS

FY 2017 funding included replacement of the mansion roof and stabilization of the kitchen building, though the latter ultimately required demolition. Phase 2 improvements in FY 2017 included extension of the loop road and development of two multi-purpose fields with parking, a playground and bathroom facility, and a picnic shelter funded by contributions from Citizens for Brentwood Greenspace.

Funding in FY 2018 includes a carry-forward ($500,000) from FY 2017 for Phase 2 completion, new funding for sod installation on the practice fields to allow use beginning in the fall of 2018 ($60,000), and funding for paver installation in the rear yard of Ravenswood Mansion ($60,000). FY 2018 also includes replacement of the barn used by Park maintenance staff ($150,000), subject to a FY 2017 year-end transfer of excess revenues from the General Fund to the Capital Projects Fund. FY 2019 funding is programmed for stabilization work on the two slave cabins ($150,000), and master planning for Phase 3 improvements is scheduled to begin in 2022 ($50,000). Design and construction of Phase 3 improvements will not begin within the CIP planning horizon.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Planning/Engineering	30					50		50
Park Land Acquisition								
Construction/Development	1,825	770						770
Historic Structure Renovation	315		150					150
TOTAL EXPENDITURES	2,170	770	150	-	-	50	-	970
SOURCE OF FUNDS								
Capital Projects Fund	595	770						770
General Fund			150			50		200
General Fund (Unreserved Balance)	1,500							
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources	75							
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	2,170	770	150	-	-	50	-	970

JUSTIFICATION

Smith Park now provides a significant opportunity for residents to enjoy both passive and active recreation in a natural setting. The vast majority of the park's 400 acres are disturbed only by hiking trails, allowing users to experience the beauty of Brentwood's rolling hills and the wildlife that live there. The addition of multipurpose practice fields allows the City to meet the increasing demand from soccer, lacrosse, rugby, and other active recreation programs. Lastly, preservation and use of Ravenswood Mansion secures this historically significant landmark for future generations to enjoy.

PROGRAM AND FACILITY COSTS:	
Personnel Services	**90**
Operating Expenditures	**150**
Debt Service	**910**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**1,150**
(When park is fully developed)	
OFFSETTING REVENUE:	**105**
(Historic House Rental)	

PROJECT	**Maryland Way Park**	**Account #**	**311-44400-3011**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for minor improvements to this 7 acre urban green space located adjacent to Maryland Way in the eastern section of the Maryland Farms Office Center.

STATUS

Funding is programmed in FY 2019 for potential improvements to the eastern edge of this park to provide an appropriate pedestrian gateway connection to the Hill Center redevelopment project ($150,000). The exact nature and scope of these improvements will be determined in the future based on the final design of that portion of the Hill Center site adjacent to the park.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.			150					150
Furniture/Equipment								
Landscaping/Trees								
Repaving/Repairs Trail								
TOTAL EXPENDITURES	-	-	150	-	-	-	-	150
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			150					150
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	-	150	-	-	-	-	150

JUSTIFICATION

This park is located in the center of the commercial/office areas of north Brentwood and directly adjacent to the expanded Hill Center currently under development. With the mixed-use pedestrian focus of the Hill Center development along with the proximity of other office developments, it is important that this park easily integrate with adjoining developments to promote walking and other non-vehicle trips.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**1**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**1**
OFFSETTING REVENUE:	

PROJECT	**Owl Creek Park**	**Account #**	**311-44400-3006**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

The development of this neighborhood park in east Brentwood was completed in CY 2007. Improvements included open play areas, picnic shelter, playground, outdoor basketball court, paved bikeway/walkways with a bridge connection to the adjoining neighborhood, restrooms, parking, fencing and landscaping.

STATUS

Funding for FY 2017 included $25,000 for installation of four-board fencing along Concord Road and an entrance feature. Other FY 2017 funding included phased replacement of the boardwalk sections of the multi-use trail and conversion to energy efficient T-8 lights in the restroom building. No Improvements are scheduled FY 2018. FY 2019 includes replacement of the main boardwalk. Funding in future years will ensure the facilities are maintained to high standards.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Planning/Engineering								
Buildings, Facilities, etc.	35		75				60	135
Furniture/Equipment								
Landscaping/Trees	25							
TOTAL EXPENDITURES	60	-	75	-	-	-	60	135
SOURCE OF FUNDS								
Capital Projects Fund	25							
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	35		75				60	135
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	60	-	75	-	-	-	60	135

JUSTIFICATION

This park is situated on land that was dedicated to the City by a developer at no cost and is ideally located to serve the nearby neighborhoods in east Brentwood.

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): **0**

OFFSETTING REVENUE:

PROJECT	**River Park**	**Account #**	**311-44400-3002**
PROGRAM	**Parks and Recreation**	**RESPONSIBLE DEPARTMENT**	**Parks and Recreation**

DESCRIPTION

This project provides for extraordinary repairs and improvements to facilities and property in this heavily used park located along the Little Harpeth River. The primary entry point is located at the southeast corner of Concord Road and Knox Valley Road.

STATUS

No improvements were scheduled for FY 2017. FY 2018 includes funding for replacement of bridge wood decking ($10,000). Basketball Court resurfacing ($5,000) is programmed for FY 2020.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Buildings, Facilities, etc.		10		5				15
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	-	10	-	5	-	-	-	15
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		10		5				15
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	10	-	5	-	-	-	15

JUSTIFICATION

Improvements are periodically needed to keep this heavily used park attractive and safe.

LOCATION MAP

PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): **0**

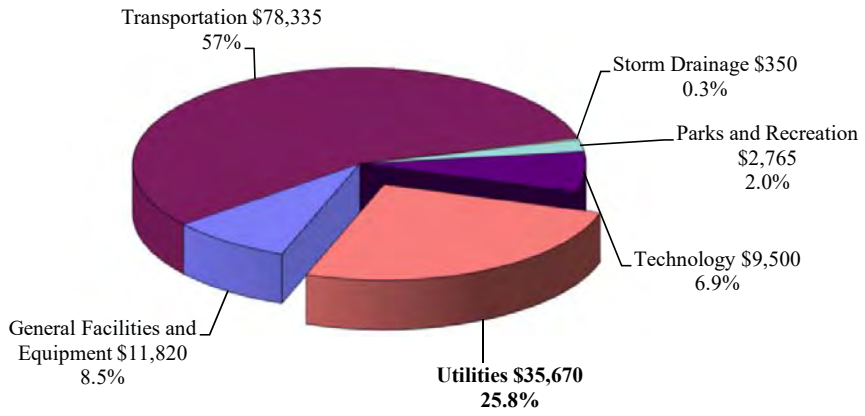
(Improvements will lower routine maintenance/repair expenses)

OFFSETTING REVENUE:

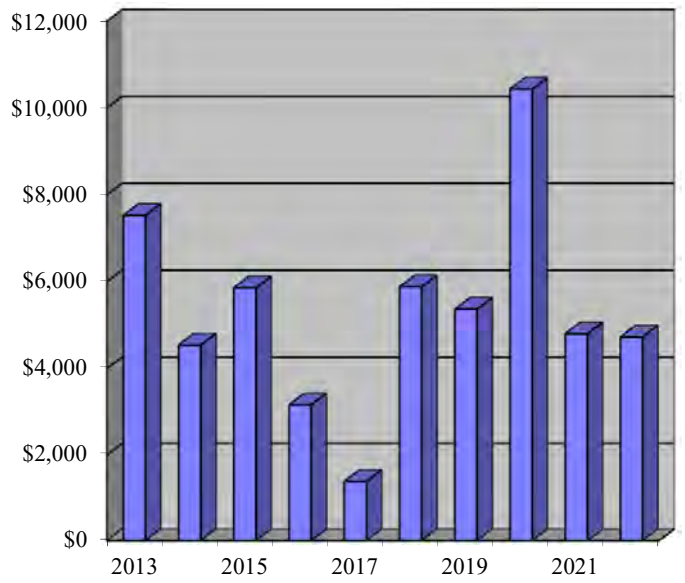
UTILITIES

UTILITIES

FISCAL YEARS 2018-2023



Amounts in 000's



Amounts in 000's

City of Brentwood, Tennessee
Capital Improvements Program
Fiscal Year 2018 - 2023
Water and Sewer Program - Summary
(000's)

Projects	Projected FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total 6 Years 2018-2023
Meter Reading Program Upgrade	225	1,200	500	-	-	-	-	1,700
Miscellaneous Sewer Service Additions	-	45	105	415	45	45	45	700
Miscellaneous Sewer System Improvements	35	540	115	110	110	110	110	1,095
Miscellaneous Water System Improvements	110	115	185	110	110	110	110	740
Sewer Rehabilitation Program	925	2,390	1,050	575	575	575	575	5,740
Sewer System Capacity Improvements	-	500	1,600	5,300	700	700	700	9,500
Sewer Lift Station Rehabilitation	-	30	285	230	-	-	-	545
Water Line Replacement Program	-	620	790	690	910	835	580	4,425
Water System Capacity Improvements	90	440	735	3,000	2,350	2,350	2,350	11,225
Grand Total	**1,385**	**5,880**	**5,365**	**10,430**	**4,800**	**4,725**	**4,470**	**35,670**
Source of Funds								
Water and Sewer Fund	830	4,895	2,925	1,715	1,705	3,055	3,550	17,845
Water Tap Fees and NCGUD Grove Tap Fees	-	440	735	3,000	2,350	925	175	7,625
Sewer Tap Fees	-	540	1,700	5,640	740	740	740	10,100
Private Sources	-	5	5	75	5	5	5	100
Water and Sewer Bond/Note Proceeds	555	-	-	-	-	-	-	-
Grand Total	**1,385**	**5,880**	**5,365**	**10,430**	**4,800**	**4,725**	**4,470**	**35,670**

PROJECT	**Meter Reading System**	**Account #**	**412-16700-8051**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This multi-year project will upgrade the existing, labor intensive "touch-read" water meter reading technology adopted 20+ years ago to a state of the art "fixed-based" reading technology utilizing radio antenna installed on towers located across the city. The proposed fixed-based reading system includes the installation of meter reading equipment on at least 3 tower sites and the replacement of reading transmitters and meters at all customer sites. The updated reading system allows for greater reading efficiencies, enhanced customer service and reduced labor and operational costs.

STATUS

To date, there are approximately 1,500 updated meter sites currently reading remotely from the Flexnet (tower read) system. Work in FY 2017 includes installation of the third reading site at the Skyline water tank site. This installation was previously proposed for the Chenoweth water tank site but updated system models indicated the Skyline site to be a more optimal site for the next tower location. FY 2018 work includes awarding a contract to upgrade additional customer meter sites, approximately 5,000 in total for FY 2018 and the remaining units installed in FY 2019.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering								
Construction	225	1,200	500					1,700
TOTAL EXPENDITURES	225	1,200	500	-	-	-		1,700
SOURCE OF FUNDS								
Water & Sewer Fund	225	1,200	500					1,700
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	225	1,200	500	-	-	-		1,700

JUSTIFICATION

The current reading system is aging, labor intensive and replacement of system parts and components are becoming obsolete. The newer meter reading technology will allow the City to better manage water losses with greater reading efficiency, provide enhanced customer service through faster complaint resolution and customer's understanding of water consumption, offset future labor costs and reduce operational cost such as fuel and vehicle expenses.

PROGRAM AND FACILITY COSTS (000's):	
Personnel Services	
Operating Expenditures	(50)
(System will result in operational savings due to reduced water loss)	
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	(50)

OFFSETTING REVENUE:

PROJECT	**Miscellaneous Sewer Service Additions**	**Account #**	**412-16700-8033**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This project provides for the extension of public sanitary sewer service, via grinder systems, to miscellaneous homes without sewer that can be reasonably connected to a nearby City sewer line. The policy for extending sewer service was enacted some 25 years ago and is covered under Section 70-10 of the Municipal Code. Implementation requires petitions & financial commitments from the majority of interested residents in an area for a project to move forward. Past projects have included neighborhoods such as Brenthaven, Holly Tree Gap area, Carondelet and Meadowlake.

STATUS

The next planned large scale project is associated with the Franklin Rd. widening project in 2019 and will include about 20 homes located in that area that are currently served by septic systems. The extension of sewer in coordination with the planned Franklin Road widening project is proposed if there is sufficient support among residents, as per City Code. Funds have also been included to provide for additional small scale sewer connections annually if requested and approved.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	-	5	65	5	5	5	5	90
Construction	-	40	40	410	40	40	40	610
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	45	105	415	45	45	45	700
SOURCE OF FUNDS								
Water & Sewer Fund	-							
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees		40	100	340	40	40	40	600
Private Sources	-	5	5	75	5	5	5	100
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	45	105	415	45	45	45	700

JUSTIFICATION

Starting in the early 1990's, all original subdivisions in the City's sewer service area built with septic systems have been tied to public sewer under the neighborhood extension program. However, there are a few isolated homes on larger lots located outside traditional subdivisions where public sewer may be needed in the future due to septic system failures.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**5**
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**5**
OFFSETTING REVENUE:	**60**

(Each home will pay a $5,000 tap fee)

PROJECT	**Miscellaneous Sewer System Improvements**	**Account #**	**412-16700-8039**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This project provides for small sewer system improvements on an as needed basis. Examples include small pipe replacement, pipe realignment projects to improve flow characteristics or manhole repairs. Potential projects may be identified from the computerized sewer system model, customer complaints and field investigations.

STATUS

Annual funding is programmed to handle projects that may arise each year. Funds are programmed in FY 2017 to complete a condition assessment of the Moore's Lane sewer force main which is located on the south side of Moore's Lane between Carothers and the entrance to the Nashville Golf Club. Funding for FY 2018 provides for the replacement of the sewer force main from Gordon Petty Drive to the entrance to the golf club entrance.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	35	75	15	10	10	10	10	130
Construction	-	450	100	100	100	100	100	950
Property/Easement Acquisition		15						15
TOTAL EXPENDITURES	35	540	115	110	110	110	110	1,095
SOURCE OF FUNDS								
Water & Sewer Fund	35	540	115	110	110	110	110	1,095
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	35	540	115	110	110	110	110	1,095

JUSTIFICATION

The EPA's Capacity Management, Operations and Maintenance (CMOM) program requires the City to actively monitor and address problems contributing to sewer overflows from the public sewer system. Periodically, certain problems or opportunities will be identified such as a collapsed pipe or realigning a small segment of pipe that, if addressed expeditiously, can save money and improve the overall operation and reliability of the system.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	**0**
Debt Service	**0**
(repairs will help reduce treatment costs)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Miscellaneous Water System Improvements**	**Account #**	**412-16700-8040**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This project provides annual funding for on-going water system improvements on an as needed basis. Examples include small line extensions, connectors, or adding appurtenances such as valves. Projects may be identified from review & analysis of the computerized water system model, customer complaints, and field investigations.

STATUS

Annual funding is programmed to handle smaller projects that may arise each year. For FY 2018, a small section of new pipe is planned to connect the Belle Rive water line, installed in 2015, to the Deerwood Lane water line. The Deerwood Ln. residents are served by a water line coming from Harpeth River Drive and under the river, which was installed in the late 1970's. This line would allow for the older water line coming from Harpeth River Dr. to be abandoned and provide better service to the area off the Belle Rive line. In FY 2019, the department is planning to abandon a small, 4 inch PVC water line serving customers on the north side of Crockett Rd. between Hampton Reserve Dr. and Arrowhead Dr. This water line was acquired by the City in 2007 from the Nolensville/College Grove Utility District under the terms of the service area transfer agreement. The project scope includes disconnecting 12 customer service lines from the older 4 inch line and reconnecting them to a larger, existing 12 inch water line which will provide better service.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	10	15	10	10	10	10	10	65
Construction	100	100	175	100	100	100	100	675
Property/Easement Acquisition								
TOTAL EXPENDITURES	110	115	185	110	110	110	110	740
SOURCE OF FUNDS								
Water & Sewer Fund	110	115	185	110	110	110	110	740
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	110	115	185	110	110	110	110	740

JUSTIFICATION

Periodically, certain problems such as low pressure and/or flow, etc. are identified in the water system and can be corrected expeditiously through minor capital improvements or system modifications. Having funds programmed in the CIP will allow the department to initiate corrective actions in a more timely manner.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	**0**
Debt Service	**0**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

PROJECT	**Sewer Rehabilitation Program**	**Account #**	**412-16700-8023**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This comprehensive, multi-year project began in 2006 and targets flow monitoring, inspection, rehabilitation and repair of the City's aging sewer infrastructure system serving the Little Harpeth River sub-basin. Per the State Order, the City, along with Metro Nashville who is a party to the Order since the two have inter-connecting systems, were required to submit a report summarizing Metro and the City's progress and compliance through 2014. It was required that the report also make recommendations for future compliance.

STATUS

Per the 2014 CAP/ER compliance report approved by TDEC, the City is committed to spend $1.25 million annually through FY 2019 on continued sewer system rehabilitation projects. Specific rehabilitation requirements during this period will include continued targeting of mostly sewer laterals (service lines) and manholes, with some trunk line segments being targeted, as determined by the City's consulting engineer. Funding programmed in FY 2020 and beyond is for anticipated proactive rehabilitation efforts to continue to improve the operational efficiency of the system.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering/Inspection	325	440	200	75	75	75	75	940
Construction	600	1,950	850	500	500	500	500	4,800
Land Acquisition								
TOTAL EXPENDITURES	925	2,390	1,050	575	575	575	575	5,740
SOURCE OF FUNDS								
Water & Sewer Fund	370	2,390	1,050	575	575	575	575	5,740
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds	555							
TOTAL FUNDS	925	2,390	1,050	575	575	575	575	5,740

JUSTIFICATION

TDEC has directed the City and Metro Nashville, to reduce inflow/infiltration of stormwater entering the system's collection system and eliminate sewer system overflows at the two agency's inter-connection point that periodically occur during major storm/flooding events. Measured reductions and program progress to date have been documented by the program's consultant and the next phase (Phase III) approved by TDEC. TDEC's major focus of policy is to reduce I/I in communities through promoting rehabilitation processes, practices and strategies to eliminate as much I/I as possible. Reductions in stormwater inflow/infiltration reduce loss of capacity and reduce operational cost associated with the transportation and treatment.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**(1,050)**
(Repairs will lower treatment costs by reducing storm water infiltration into the system)	
Debt Service	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**(1,050)**
OFFSETTING REVENUE:	
(Capital program is funded by a 25% increase in sewer rates approved in the spring 2008)	

PROJECT	**Sewer System Capacity Improvements**	**Account #**	**412-16700-**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This project is intended to fund future sewer system improvements that are needed to assure sufficient system capacity to meet the future growth demands of Brentwood's customers. Master planning enables the City to identify required improvements, including system sub-basin projects and system-wide conveyance projects. With the City having a fixed treatment capacity limit with Metro Nashville, projects that address wet weather peak flows are also considered capacity improvements.

STATUS

There were no planned projects identified for FY 2017. Beginning in FY 2018, funds are programmed in anticipation of initiating projects recommended from the Sewer System Master Plan prepared by Hazen and Sawyer engineers The first major project that has been identified in the plan includes constructing a 3 million gallon wastewater storage facility and associated lift station near the Brentwood/Metro existing station to address wet weather peak flows. This above-ground storage facility and lift station are estimated to cost approximately $7.0 million dollars. One of the biggest challenges associated with this project is finding the land for such a facility. This could require the City to consider construction of a below-grade facility, significantly increasing the cost. Funding for the storage facility would come from Sewer Tap Fees and be spread out over FY 2018 - FY 2020. Funds from Sewer Tap Fees are programmed in future years for continued implementation of recommended projects in the master plan.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	-	-	600	300	150	150	150	1,350
Construction	-	-	1,000	5,000	500	500	500	7,500
Property/Easement Acquisition	-	500	-	-	50	50	50	650
TOTAL EXPENDITURES	-	500	1,600	5,300	700	700	700	9,500
SOURCE OF FUNDS								
Water & Sewer Fund	-							
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees		500	1,600	5,300	700	700	700	9,500
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	500	1,600	5,300	700	700	700	9,500

JUSTIFICATION

TDEC design policy and guidelines suggest systems should focus on sustainable infrastructure, first through system rehabilitation rather than simply upsizing system infrastructure. Accordingly, now that the City has completed the first significant phases of the sewer rehabilitation program and established hydraulic patterns specific to I/I contribution, now incorporated into a system hydraulic model, the next phase for the sewer system master planning process is to evaluate and update the future short and long-term capacity requirements to meet future growth projections. The City's engineering consultants will be preparing this comprehensive system master plan in CY 2016 and make recommendations for future system upgrades.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	
Debt Service	**0**
(Improvements & new technology should reduce operating costs)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**-**

OFFSETTING REVENUE:

PROJECT	**Sewer Lift Station Rehabilitation**	**Account #**	**412-16700-8027**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water & Sewer**

DESCRIPTION

This project provides for an on-going, proactive program to rehabilitate the City's sewer lift stations including operating equipment that provides alternative pumping methods during an emergency. To date, nine of the eleven stations have been rehabilitated within the last eight years with two stations remaining to be rehabilitated.

STATUS

FY 2018 funding provides for the design of the Edmondson Pike sewer lift station located just south of Edmondson Elementary school. Construction work associated with the rehabilitation of this station is planned for FY2019. For FY 2020, funding is anticipated for the evaluation, design and construction to possibly abandon the Arden Woods lift station located at 6402 Fisher Ct.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2022	Total FY 2016-2021
EXPENDITURE ALLOCATION								
Engineering	-	30	10	30				70
Construction	-		275	200				475
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	30	285	230	-	-	-	545
SOURCE OF FUNDS								
Water & Sewer Fund	-	30	285	230				545
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	30	285	230	-	-	-	545

JUSTIFICATION

The EPA's Capacity Management, Operations and Maintenance (CMOM) program requires the City to more actively monitor and increase emergency preparedness for addressing potential problems associated with the operation of sewer lift stations and their potential contribution to sewer overflows.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	**(20)**
Debt Service	**0**
(Improvements & new technology should reduce operating costs)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**(20)**

OFFSETTING REVENUE:

PROJECT	**Water System Annual Pipe Replacement Program**	**Account #**	**412-16700-8053**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This proactive program initiated in FY 2013 provides for planned, incremental replacement of water lines throughout the distribution system in order to address aging infrastructure and improve the level of system operation. Projects will be prioritized based on several factors such as line age, historical performance.

STATUS

Work anticipated for FY 2018 includes replacement of approximately 2,500 L.F. of 12 inch PVC water line along Crockett Road, from Raintree Pkwy. to Twelve Oaks subdivision. This section of PVC has been identified via the asset management assessment program to be in need of replacement due to multiple breaks and being a larger water main with a significant consequence if it fails. Funding in FY 2019 is provided for beginning work to replace the water main along Devens Drive, from Knox Valley to near Holly Road. This includes replacing the water lines in each cul-de-sac along the way. This project is planned over FY 2019-2020. Beginning in FY 2021, funding is provided to begin work in the Carondelet North area, which includes Davis Dr., Carondelet Pl., Ford Dr., and Hood Pl., to replace smaller, concrete pipe that has a high failure rate. This project is planned for FY 2021-2022. Funding is provided in future years for projects identified in the asset management program.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	-	60	130	30	150	75	70	515
Construction	-	550	650	650	750	750	500	3,850
Property/Easement Acquisition	-	10	10	10	10	10	10	60
TOTAL EXPENDITURES	-	620	790	690	910	835	580	4,425
SOURCE OF FUNDS								
Water & Sewer Fund		620	790	690	910	835	580	4,425
Water Tap Fees and NCG Tap Fees								
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	620	790	690	910	835	580	4,425

JUSTIFICATION

Proactively managing the City's water system assets helps to ensure the City gets the most value from the asset by reducing long-term capital and operational costs and extending the useful life of the water system assets. This program seeks to replace or rehabilitate aging water lines as a result of various risk factors that include age, demand/usage, materials and the installation environment.

PROGRAM AND FACILITY COSTS:

Personnel Services	
Operating Expenditures	**(10)**
Debt Service	**0**
(reduced costs related to maintenance and repair of old lines)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	**(10)**

OFFSETTING REVENUE:

PROJECT	**Water System Capacity Improvements**	**Account #**	**412-16700-8036**
PROGRAM	**Utilities**	**RESPONSIBLE DEPARTMENT**	**Water Services**

DESCRIPTION

This project addresses future water system improvements that are needed to increase system capacity to meet the demands of Brentwood's customers. Projects identified in the water capacity master plan include internal distribution system improvements that will facilitate more water through the system as well as pump station and line upsizing projects that will allow for increased water supply directly from our wholesale water suppliers.

STATUS

In fiscal year 2017, work began on the Granny White Connector project which will carry over into FY 2018. For FY 2018, projects planned include upgrades to the River Oaks water booster station. The River Oaks station was originally installed around 1975 and requires upgrades to both provide greater pumping capacity and to update equipment and structure for safety and efficiency. Funding proposed is for upgrades at the existing site. However, staff is evaluating a possible relocation of the station for better access and constructability, which could increase costs. For FY 2019-2020, projects proposed include extending the 12 inch water line in Mallory Park northward to Wikle Rd. and beginning design and land acquisition for installing a larger water line along Franklin Rd. from Murray Ln. to Concord Rd. Additional projects are planned in future years as determined by the water system master plan. Funding is expected to be a combination of water tap fees and water/sewer operating revenue.

PROJECT BUDGET (000'S)	Projected FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023	Total FY 2018-2023
EXPENDITURE ALLOCATION								
Engineering	40	60	275	350	300	300	300	1,585
Construction	50	375	310	2,500	2,000	2,000	2,000	9,185
Property/Easement Acquisition		5	150	150	50	50	50	455
TOTAL EXPENDITURES	90	440	735	3,000	2,350	2,350	2,350	11,225
SOURCE OF FUNDS								
Water & Sewer Fund	90					1,425	2,175	3,600
Water Tap Fees and NCG Tap Fees		440	735	3,000	2,350	925	175	7,625
Sewer Tap Fees								
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	90	440	735	3,000	2,350	2,350	2,350	11,225

JUSTIFICATION

The Brentwood water system experiences significant water demand from outdoor watering & irrigation during the summer months. The system was strained during severe droughts in 2007 and again in 2012. Water demand for the average home reached nearly 4.5 times higher than the normal winter water demand of 5,800 gallons. While the department was able to meet the unusually high water requirements of our existing customers, additional water capacity will be needed to continue to meet the peak summer demands associated with growth.

PROGRAM AND FACILITY COSTS:	
Personnel Services	
Operating Expenditures	**0**
ANNUAL OPERATING BUDGET IMPACT (000'S):	**0**

OFFSETTING REVENUE:

(Increase water sales from available water during the summer)

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

Appropriation	An authorization made by the City Commission which permits the city staff to incur obligations against and to make expenditures of governmental funds and resources. Appropriations are usually for a fixed dollar amount for a particular budget year.
Budget	The official enactment by the City Commission establishing the legal authority for the City staff to make expenditures.
Capital Improvements	A permanent addition to the City's assets. Capital Improvements include certain upgrades of equipment, facilities, and infrastructure generally in excess of $10,000 in cost. Not included is the replacement of vehicles, except for specialized, higher priced equipment such as a fire engine or large fleets such as the police cars.
Capital Improvements Budget	The appropriation of operating funds and bond funds for capital improvements during the first year of a six-year program.
Capital Improvements Program	A plan, updated yearly, which provides for long-term physical improvements during the six-year plan period.
Capital Projects Fund	The fund that consolidates expenditures for most General Fund type capital improvements. Revenue sources are generally from general obligation bonds issued or transfers from other funds except the Water & Sewer Fund.
CMOM	Capacity, Management, Operations and Maintenance program mandated by EPA and TDEC for sanitary sewer systems.
Corridor Plan	A concept master plan for the layout of a roadway section that will be generally followed in future design and engineering.
Debt Service Fund	The Debt Service Fund is used for the accumulation of resources for, and the payment of, principal and interest on general long-term debt. Revenue sources include the General Fund and State Street Aid Fund.

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

Emergency Communications District — Quasi-governmental entity that oversees operation of the City's emergency dispatch center. District board is comprised of the City's Board of Commissioners. The revenue source for this district is a per-line fee assessed on telephone service within the City as well as transfers from the General Fund.

Facilities Maintenance Division — The division set aside for the accumulation of contributions from the General Fund and the disbursement of those contributions for major maintenance of City facilities and buildings.

Federal Highway Administration (FHWA) — The federal agency responsible for approving modification to the interstate highway system including interchanges.

General Fund — The principal fund of the City, the General Fund is used to account for all activities not included in other specified funds. General Fund revenue sources include property and business taxes, licenses and permits, intergovernmental revenues, service charges, fines and forfeitures, plus other types of revenue. This fund includes most of the basic operating services, such as fire and police protection, library, refuse contract, parks and recreation, public works and general government administration.

General Obligation Bonds — Bonds that are issued by the City for transportation and park improvements with repayment of principal and interest subject to full faith and credit of the city (i.e., the first obligation in the annual budget).

Gravity Sewer System — A traditional system of sewer collection which relies on the force of gravity to carry sewage from the area to the treatment facility. Pumps are occasionally required to augment the gravity flow from one drainage area to another.

Grinder Pump Sewer System — A pressured method for providing sewer to a residence or business. The pumps grind the sewage as it leaves each location then pumps it to a nearby trunk line.

Metropolitan Nashville-Davidson County — The political-geographical area comprising Davidson County, Tennessee. The form of government is the metropolitan form of government which is a central, combined city-county government for the area. Reference here is to the government.

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

Metropolitan Planning Organization (MPO)	The regional transportation planning organization responsible for prioritizing and allocating federal funds to various roads projects under the 1991 Surface Transportation Act.
Operating Budget	The expenditure plan for continuing routing service programs and activities. In most instances, operating expenditures are made in a single fiscal year. These expenditures include personal services, contractual services, commodities, minor capital outlay and annual debt service requirements.
Private Sources	Sources of funds, or other assets, received from individuals, businesses or foundations for use by the government for specific or general projects.
Program and Facility Costs	The anticipated ongoing annual expenditures associated with a new program or facility to be operated by the City.
Public Works Project Fee Fund (PWPF)	The fund set aside for the accumulation of transportation impact fees and the disbursement of those fees for improvements to the City's roadways.
Right of Way (R.O.W.)	An area set aside and controlled by a political subdivision for use by the public, generally for transportation facilities such as streets and highways.
State of Tennessee	A geographical-political subdivision of the United States of which the City of Brentwood and Williamson County are a part. Reference here is to the government of the state.
State Street Aid Fund	This is a separate fund required by the state of Tennessee for funds received from the state based on allocation of the city's portion of the gasoline and motor fuel tax. The distribution to cities is based upon population. The expenditures from this fund are used for maintaining the streets of the city which are not designated federal or state highways or for debt service associated with capital projects.

City of Brentwood, Tennessee
Capital Improvements Program
Glossary of Terms

Tennessee Department of Environment and Conservation (TDEC)	The department of the state government responsible for regulating discharges into streams and for distributing grants for park projects.
Tennessee Department of Transportation (TDOT)	The department of the state government responsible for planning, building and maintaining the state and federal highways within the state. TDOT is responsible for administering federal transportation grants.
Warrant Study	A study required justifying the need for a traffic signal installation or modification.
Water/Sewer Fund	This is an enterprise fund. The Water/Sewer Fund records the receipts and expenditures of the Water/Sewer Department for the purpose of providing a sufficient and safe supply of water to residents and businesses of the city as well as an environmentally acceptable means of collecting and transporting sewage for treatment by Metro Nashville Water and Sewer Department.
Water/Sewer Revenue Bonds	The bonds generally used for major capital improvements to the water and sewer systems such as extending sewer service or upgrading the City's water storage capacity. The bond principal and interest are repaid from water/sewer revenues.
Williamson County	The geographical-political subdivision of the State of Tennessee of which Brentwood is located. Williamson County is located in the Middle district of Tennessee, immediately south of Davidson County. Reference here is to the government of the county.