



# Capital Improvements Program FY 2017-2022

## **City of Brentwood, Tennessee** Capital Improvements Program Fiscal Years 2017-2022

## **Brentwood Board of Commissioners**

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# **INTRODUCTION**

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



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

March 28, 2016

#### CITY MANAGER MEMORANDUM

2016-02

TO: Honorable Mayor and Members of the City Commission

FROM: Kirk Bednar, City Manager

#### SUBJECT: Proposed Fiscal Years 2017-2022 Capital Improvements Program

Attached you will find the proposed six-year capital improvements program (CIP) for the City of Brentwood for fiscal years 2017-2022.

The proposed CIP will be reviewed with the Board of Commissioners at a work session scheduled for Tuesday, April 5, 2016, 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 23, 2016, Tuesday, June 14, 2016, and Monday, June 27, 2016. A resolution to adopt the six-year CIP will be presented to the City Commission for consideration and adoption at the June 27, 2016 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 a six year program, the plan is a living document with only the first year fully committed as part of the FY 2017-18 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 2017-2022 Capital Improvements Program is an ambitious plan that calls for the investment of **\$115,985,000** 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 **\$33.1 million** of the **\$115.98** million program is dependent upon receipt of inter-governmental revenues (state and federal), targeted mostly to the improvement of state highways in Brentwood, and Franklin Road in particular, over the next six years.

The net <u>local</u> investment of **\$82.9 million** over six-years will require a significant funding commitment, including direct support of over **\$68.4 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 contributions from its annual operating budget and accumulated retained earnings for various water and sewer system improvements.

The proposed CIP program cannot be implemented without the issuance of new General Obligation Bonds totaling **\$9.8 million** over the six-year period, and an estimated **\$4.7 million** in Water/Sewer Bonds. The associated annual debt service with the proposed G.O. Bonds is projected to not require a property tax increase. An update to the Water and Sewer Fund's long-term financial model is nearing completion and appropriate modifications to the water and sewer

rate structure to support the proposed six-year capital plan and departmental operations are planned as part of the FY 2017 operating budget.

Total project costs in the major program areas over the next six years (FY 2017-2022) are summarized below:

Transportation	\$62,160,000	53.6%
Utilities	30,665,000	26.4%
Facilities & Equipment	8,930,000	7.7%
Technology	7,930,000	6.8%
Parks & Recreation	5,950,000	5.1%
Storm Drainage	350,000	0.3%
TOTAL	\$115,985,000	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. Several significant projects involve improvements to state highways and are dependent on TDOT participation and/or federal funding to complete. The largest of these over the next six years is the widening of Franklin Road South to five lanes from Concord Road to south of Moore's Lane, with an updated cost estimate totaling \$27.7 million with \$24 million of this cost being direct state funding for construction and a portion of right-of-way acquisition costs. Two significant projects on state routes that will be completed early in FY 2017 are Concord Road East (phase 2) from Sunset Road to the eastern city limits (\$1 million), and widening of Concord Road from Jones Parkway to Arrowhead Drive (\$400,000).

In the Concord Road East and Franklin Road projects, the City has assumed responsibility for engineering design and right-of-way acquisition costs, subject to TDOT paying for utility relocations and construction costs. 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. Staff is hopeful that State construction funding will be provided in FY 2017 for the Franklin Road South project. 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 due to the funding limitations noted above.

Significant local funding (\$7.8 million) is allocated over the next three years for 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 that will facilitate future additional widening of both roads. In addition, funding is carried forward for completion

of a couple smaller scale intersection improvement projects originally funded in FY 2016. These include turn lane improvements at Carothers Parkway and Moores Lane and elimination of the four-way stop at the intersection of Crockett Road and Raintree Parkway/Green Hill Boulevard via construction of a roundabout. Finally, \$4.9 million from a planned FY 2018 G.O. bond issue is reserved for future road improvements projects as may be identified during the upcoming year.

The City will maintain a significant commitment to street resurfacing over the six year period in the total amount of \$13.9 million. The FY 2017 proposed resurfacing funding level of \$2.84 million reflects an increase of \$100,000 in base funding over FY 2016 to a total of \$2.2 million. Also included in the FY 2017 resurfacing budget is \$640,000 in funding for resurfacing of Maryland Way approved in FY 2016 that will be carried over to FY 2017 to coordinate this work with the other related work on Maryland Way privately funded as part of the Hill Center project. Projected funding levels over the six year plan reflect continuation of the \$2,200,000 annual funding amount, which represents slightly more than \$900,000 in additional base resurfacing funds compared to the FY 2016-2021 CIP due in part to the increased funding resulting from the 2015 special census. 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. Obviously, the level of future funding for street resurfacing is a concern. There are continuing discussions at the state level regarding possible funding enhancements to cover unfunded needs with State highways. Hopefully, any funding enhancement plan will include a distribution of a portion of the new revenue back to local governments to help with maintaining local streets. Until then, the City will be faced with continuing pressure to increase the level of General Fund support for street resurfacing as asphalt prices fluctuate and resurfacing demands increase with roads in subdivisions built during the high growth period of the late 1990's approaching 20 years of age.

The proposed six year **<u>Utilities</u>** program begins to shift the emphasis 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. As a result, water system capacity planning is now focused on designing and operating the system in a manner that maximizes our water received from Harpeth Valley to minimize the amount of water paid for but not used under the new minimum bill. The six year plan provides for an \$11.2 million investment to expand the capability of the system to obtain more water from Harpeth Valley and distribute it 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.

The six year plan will continue to emphasize rehabilitation of the original sewer system on a reduced scale compared to previous years while also addressing system-wide sewer capacity planning. Approximately \$6.7 million in sewer rehabilitation projects are projected over the next six years. For the past seven years, the City has undertaken over \$23 million of work associated with rehabilitating the City's older sewer lines, manholes, etc. The rehabilitation work accomplished to date has reduced annual infiltration over 700 million gallons which allowed for a partial lifting of the moratorium on new sewer connections within the Little Harpeth River drainage basin and reduces the City's cost to Metro Nashville for treatment of storm water infiltration at their wastewater treatment facility. Now that the heaviest phase of sewer rehabilitation work is over, we are completing development of a long-term sewer system master plan that will identify needed 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 \$7.2 million is programmed over the six year CIP period for sewer capacity projects as identified in the sewer system master planning process. Note that funding for these capacity related improvements is projected to come from sewer tap fees collected from new development projects over the past several years and in the future.

Over the past few 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 expected to be complete in summer of 2016. The focus for the **Parks and Recreation** program over the next six years will balance continued development of park areas, including future phases of Smith Park as outlined in the approved masterplan (\$5.2 million), and proactive major maintenance projects within existing park facilities.

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 \$4.9 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. Funding is programmed in the Municipal Center enterprise fund for continued upkeep and improvement of the 30 year old city hall facility, including a renovation of public safety locker rooms to improve gender parity given the increased number of female public safety personnel. 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 repaying of the Service Center maintenance yard in FY 2018 and replacement of the Library roof in FY 2019. 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 \$2.6 million is allocated for computer equipment, hardware and software upgrades and replacements over six years. Significant funding of \$4.1 million is programmed beginning in FY 2016 for the City's estimated 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 Currently, none of the agencies can communicate directly without undertaking system. cumbersome system manipulations that significantly compromise communication abilities in an emergency situation. This system is proposed to be interconnected with the Metro Nashville 800 MHz radio system to provide even greater regional communications interoperability. Also related to public safety operations, funding in the amount of \$750,000 is programmed in FY 2017 for replacement of the City's computer aided dispatch system. Finally, funding in the amount of \$375,000 is also provided for continued expansion of the City's fiber optic communication network to create redundant loops and minimize communication down time in the event of an incident that damages part of the fiber network.

#### FINANCING REQUIREMENTS

As noted earlier, almost \$68.4 million (59%) 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 \$33.1 million or 29%. The remaining funds (\$14.5 million or 12%) will come from through the issuance of General Obligation and Water/Sewer Revenue Tax Bonds.

FY 2017 funding for several projects is dependent upon two proposed FY 2016 year-end transfers totaling \$10,195,000 million from the General Fund to the Capital Projects Fund and \$60,000 from the General Fund to the Equipment Replacement Fund. This includes \$2,455,000 million in projected excess revenues in the FY 2016 operating budget and \$7.8 million from the General Fund unrestricted fund balance. The \$7.8 million transfer from the General Fund unrestricted fund balance includes \$4.9 million in lieu of originally planned G.O. bonds for the Sunset Road/Ragsdale Road intersection project (\$3.4 million) and construction of Flagpole and Wikle Parks (\$1.5 million). The remaining \$2.9 million from the unrestricted fund balance was previously planned in support of the Phase 2 construction at Smith Park (\$1.5 million) and additional funding for the Sunset Road/Ragsdale Road intersection project (\$1.4 million).

The implementation of a six-year, comprehensive program with long-term benefits will require the issuance of **\$9.8 million** in <u>new</u> 20-year General Obligation Bonds and an estimated **\$4.7 million** in <u>new</u> Water/Sewer Revenue Tax Bonds.

The following memo from Karen Harper, Acting 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 and Water/Sewer 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) are being reserved for transportation related projects expected to be identified by the Major Thoroughfare Plan update and/or the joint Metro Nashville/Brentwood traffic study of the Maryland Farms and Old Hickory Blvd. area.

Fiscal year 2020 (issued by late calendar year 2019):

 G.O. bond issue (\$4,900,000) will be needed for phase II widening of Sunset Road from Owl Creek to Concord Road (\$2,900,000) and phase III improvements in Smith Park (\$2,000,000).

*Fiscal year 2021* (issued by late calendar year 2020)

• Water/Sewer bonds backed by the City's full faith and credit (\$4,700,000) will be needed for water capacity related projects.

(Note that the ongoing Water and Sewer Fund financial model update and rate study could result in modifications to the size, phasing, and/or project funding distribution associated with future Water/Sewer bond issues)

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. and Water/Sewer Revenue 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 2017 to FY 2022 will have minimal impact on the City's future operating budgets and property tax rate. Debt service for the new Water/Sewer bonds will be funded through current income. However, as noted above, a review of the City's water and sewer rate and fee structures is underway to insure they provide for the continued long-term financial stability of the Water and Sewer enterprise fund.

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 2016 is \$3,437,937 with a projected fund balance for the Debt Service Fund as of June 30, 2016 of \$3,563,125. The proposed FY 2017 General Fund transfer to the Debt Service Fund will drop by \$400,000 to \$2,950,000 because the planned FY 2016 bond issue was eliminated as discussed above.

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 \$3,350,000 level proposed for FY 2016. 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 2016 is approximately 9.6%. 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 2017 through FY 2022 with the Debt Service Fund transfer remaining flat at \$2,950,000, this percentage will decrease to 7.1% in FY 2022.

#### **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, and Karen Harper, Acting Finance Director, for their assistance in the research and preparation of this document, and their 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.

Kirk Bednar

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



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

March 28, 2016

#### FINANCE DEPARTMENT MEMORANDUM

#### 2016-06

TO: Honorable Mayor and Members of the City Commission

THROUGH: Kirk Bednar, City Manager

FROM: Karen Harper, Acting Finance Director

SUBJECT: Capital Improvements Program Funding

The attached City of Brentwood's 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 52 projects and improvements at a total cost of \$115,985,000. As addressed in the previous memo from the City Manager, \$83 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 two proposed special FY 2016 transfers to the Capital Projects Fund: a \$2.5 million transfer of excess revenues from the General Fund; and a \$7.8 million unrestricted fund balance transfer from the General Fund before June 30, 2016.

Completion of a program of this magnitude over the six-year period will require the City to issue two 20-year General Obligation bonds and one 20-year Water/Sewer Revenue bonds totaling \$14.5 million. The anticipated timing for the issuance of the proposed bonds is as follows:

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Fiscal Year	General Obligation Bonds	Water/Sewer Revenue Bonds	Total
2017			
2018	\$4,900,000		4,900,000
2019			- / AID-4
2020	\$4,900,000		4,900,000
2020			
2021		\$4,700,000	4,700,000
2022			
TOTAL	\$9,800,000	\$4,700,000	\$14,500,000

The timing of the bond issues as outlined above is designed to meet several goals. First, the City simply must have funds available when the various improvements are initiated. In most cases, it is to the City's financial advantage to obtain long-term financing for the entire amount needed for a project in one bond issuance, rather than in a piecemeal form. This approach also helps the City avoid any negative effects of economic and market changes on financing costs in the middle of a project.

The projected financing schedule is also driven, in part, by the desire to be able to designate each of the City's bond issues as "qualified tax-exempt obligations" within the meaning of the Internal Revenue Code. Such a designation historically has allowed the City and other eligible issuers to capture lower interest rates since commercial banks are given an extra tax preference whenever they purchase so called "bank qualified" debt or debt sold by an issuer that reasonably intends to sell no more than \$10 million in tax-exempt securities in any one calendar year.

Whenever possible, it is preferable that total General Obligation (G.O.) <u>bond</u> proceeds for any calendar year not exceed \$5 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 generally greater than the cost of funds to the City. While this always reduces administrative burdens associated with closely monitoring earnings, the economic value of this investment is sometimes lost if short-term yields are less than the cost of funds. Bond issues between \$5 and \$10 million must be spent for designated projects within 24 months; otherwise, the City will be subject to the rebate penalty for interest earned above the cost of the funds to the City.

Finally, keeping the bond issues within the amounts and schedule noted previously allows the City to manage the annual debt service within the framework of debt service policies and helps the City avoid property tax increases to service additional debt obligations. This "leveling out" of debt also permits the City to avoid major increases to the annual General Fund transfer to Debt Service Fund. Based on current and projected bond interest rates, the City should be able to issue \$14.5 million in new General Obligation Bonds during the six- year period with little or no increase in the annual transfer required from the General Fund to the Debt Service Fund. The proposed \$4.7 million in Water/Sewer Revenue Bonds is anticipated to be funded through current income. However, as noted in the City Manager's transmittal memo, the ongoing Water and Sewer Fund financial model update and rate study could result in modifications to the size, phasing, and/or project funding allocation associated with future Water/Sewer bond issues.

Fiscal Year	Direct Project Funding	Transfer to Debt Service Fund	Total General Fund Related Support
2017	\$ 15,755,000	\$ 2,950,000	\$ 18,705,000
2018	15,115,000	2,950,000	18,065,000
2019	5,210,000	2,950,000	8,160,000
2020	5,375,000	2,950,000	8,325,000
2021	5,270,000	2,950,000	8,220,000
2022	3,125,000	2,950,000	6,075,000
Total	\$ 49,850,000	\$ 17,700,000	\$ 67,550,000

The six-year capital improvements program will be reevaluated and updated annually in light of new priorities, revised cost, 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.

# **SUMMARIES**

City of Brentwood, Tennessee Capital Improvements Program Fiscal Years 2017-2022 Program Expenditures (000's)



City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017-2022 Funding by Source (000's)



## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Program Expenditures - Summary (000's)

<u>Program</u>	Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
General Facilities and Equipment	785	1,130	2,955	1,945	980	805	1,115	8,930
Technology	1,095	5,175	990	495	250	635	385	7,930
Transportation	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160
Storm Drainage	130	100	50	50	50	50	50	350
Parks and Recreation	2,455	2,940	310	460	2,120	60	60	5,950
Utilities	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665
Grand Total	20,088	28,265	35,875	19,915	11,560	11,420	8,950	115,985

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Sources of Funds - Summary (000's)

<u>Source</u>	Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
Capital Projects Fund	5,510	11,690	6,395	1,255	300	300	300	20,240
Emergency Communications District Fund	55	-	-	-	-	-	-	-
Equipment Replacement Division	955	1,265	1,165	1,795	890	1,070	1,160	7,345
Facilities Maintenance Division	320	310	485	485	235	235	235	1,985
General Fund	810	810	1,700	1,505	1,320	1,055	1,260	7,650
General Fund (Unreserved Balance)	-	1,500	-	-	-	-	-	1,500
General Obligation Bond Proceeds	-	-	4,900	-	2,460	2,440	-	9,800
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources	10	80	30	5	75	5	5	200
Public Works Project Fee Fund	-	1,000	600	-	-	300	-	1,900
Inter-Governmental Sources	8,255	4,990	12,920	7,700	-	-	-	25,610
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund	2,157	4,660	6,070	5,860	4,970	2,355	2,330	26,245
Water & Sewer Bond/Note Proceeds	1,006	-	-	-	-	2,350	2,350	4,700
Grand Total	20,088	28,265	35,875	19,915	11,560	11,420	8,950	115,985

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## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Summary - All Projects (000's)

		Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
<b>General Facilities</b>	Community Identity Features	-	-	15	15	15	15	15	75
	Community Planning	40	50	40	-	-	-	-	90
	Equipment/Vehicles	435	775	805	1,385	670	495	805	4,935
	Library	70	50	50	300	50	50	50	550
	Municipal Center	170	180	470	170	170	170	170	1,330
	Safety Center East	25	25	25	25	25	25	25	150
	Service Center	45	50	250	50	50	50	50	500
	Town Center Improvements	-	-	1,300	-	-	-	-	1,300
	Total - General Facilities	785	1,130	2,955	1,945	980	805	1,115	8,930
Technology	Computer Equipment	485	490	360	385	205	560	340	2,340
8	Emergency Communications Center	55	750	-	-	-	-	-	750
	Fiber Optic Network	210	140	150	85	_	_	-	375
	GIS	-	-	150	-	-	60	-	210
	Radio System	285	3,600	300	-	-	_	-	3,900
	Software Systems	60	195	-	25	15	15	15	265
	Warning Sirens	_	-	30	_	30	_	30	90
	Total - Technology	1,095	5,175	990	495	250	635	385	7,930
Transportation	Bikeway Improvements		150	160	175	175	175	175	1,010
1 ransportation	Carothers Parkway	330	105	-	-	-	-	-	1,010
	Concord Road (west of Arrowhead Drive)	3,435	400	_	-			_	400
	Concord Road (west of Allowindad Diffee)	5,000	1,000	_	_	_		_	1,000
	Crockett Road	30	445	85	_	_	_	_	530
	Franklin Road (south section)	500	6,850	13,080	7,825	-	-	_	27,755
	Future Transportation Projects	-	-	4,900	-	-	_	-	4,900
	Granny White Pike	260	-	-	-	_	_	-	-
	Johnson Chapel Road	50	-	-	-	_	_	-	_
	Moores Lane	60	-	-	-	-	_	-	_
	Sidewalks	105	90	50	50	50	50	50	340
	Street Lighting	-	-	20	20	20	20	20	100
	Street Resurfacing	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
	Sunset Road	345	1,890	5,010	955	460	2,740	-	11,055
	Traffic Signal Upgrades	445	405	210	-	210	-	210	1,035
	Total - Transportation	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Summary - All Projects (000's)

		Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total 6 Years 2017-22
Storm Drainage	Calloway Drive	80	-	-	-	-	-	-	-
	Derby Glen	-	50	-	-	-	-	-	50
	Subdivision Drainage	50	50	50	50	50	50	50	300
	Total - Storm Drainage	130	100	50	50	50	50	50	350
<b>Parks/Recreation</b>	Concord Park	-	20	-	-	-	-	-	20
	Crockett Park	165	85	30	30	30	30	30	235
	Deerwood Arboretum	-	15	-	-	-	-	-	15
	Flagpole & Wikle Parks	1,955	40	-	-	-	-	-	40
	Granny White Park	30	50	30	30	30	30	30	200
	Marcella Vivrette Smith Park	250	2,670	200	250	2,060	-	-	5,180
	Maryland Way Park	-	-	-	150	-	-	-	150
	Owl Creek Park	-	60	25	-	-	-	-	85
	River Park	40	-	25	-	-	-	-	25
	Tower Park	15	-	-	-	-	-	-	-
	Total - Parks/Recreation	2,455	2,940	310	460	2,120	60	60	5,950
Utilities	Meter Reading Program Upgrade	225	1,000	710	_	_	_	_	1,710
Centres	Miscellaneous Sewer Service Additions	-	45	45	105	405	45	45	690
	Miscellaneous Sewer System Improvements	-	135	325	160	110	110	110	950
	Miscellaneous Water System Improvements	_	110	110	110	110	110	110	660
	Sewer System Model	15	-	-	-	_	_	-	-
	Sewer Rehabilitation Program	1,090	1,950	1,520	1,520	575	575	575	6,715
	Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
	Water Line Replacement Program	827	45	295	295	295	295	295	1,520
	Water System Capacity Improvements	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
	Total - Utilities	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665
TOTALS		20,088	28,265	35,875	19,915	11,560	11,420	8,950	115,985

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017-2022 General Facilities and Equipment Program - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY 2022	Total 6 Years <u>2017-22</u>
Community Identity Features		_	15	15	15	15	15	75
Community Planning	40	50	40		-	-		90
Equipment/Vehicles	435	775	805	1,385	670	495	805	4,935
Library	70	50	50	300	50	50	50	550
Municipal Center	170	180	470	170	170	170	170	1,330
Safety Center East	25	25	25	25	25	25	25	1,550
Service Center	45	50	250	50	50	50	50	500
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930
Source of Funds								
Capital Projects Fund	85	50	1,300	-	-	-	-	1,350
General Fund	-	-	55	15	15	15	15	115
General Fund (Unreserved Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	435	775	805	1,385	670	495	805	4,935
Facilities Maintenance Division	95	125	325	375	125	125	125	1,200
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-

Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Technology Program - Summary (000's)

	Projected	FY	FY	FY	FY	FY	FY	Total 6 Years
<u>Projects</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2017-22</u>
Computer Equipment	485	490	360	385	205	560	340	2,340
Emergency Communications Center	55	750	-	-	-	-	-	750
Fiber Optic Network	210	140	150	85	-	-	-	375
GIS	-	-	150	-	-	60	-	210
Radio System	285	3,600	300	-	-	-	-	3,900
Software Systems	60	195	-	25	15	15	15	265
Warning Sirens	-	-	30	-	30	-	30	90
Grand Total	1,095	5,175	990	495	250	635	385	7,930
Source of Funds								
Capital Projects Fund	520	4,685	300	-	-	-	-	4,985
General Fund	-	-	270	85	30	35	30	450
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	520	490	360	410	220	575	355	2,410
Facilities Maintenance Division	-	-	-	-	-	-	-	-
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	60	-	_	25	-	85
ECD Fund	55	-	-	-	-	-	-	-
Grand Total	1,095	5,175	990	495	250	635	385	7,930

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Transportation - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years <u>2017-22</u>
Bikeway Improvements	-	150	160	175	175	175	175	1,010
Carothers Parkway	330	105	-	-	-	-	_	105
Concord Road (west of Arrowhead Drive)	3,435	400	-	-	-	-	-	400
Concord Road (east of Edmondson Pike)	5,000	1,000	-	-	-	-	-	1,000
Crockett Road	30	445	85	-	-	-	-	530
Franklin Road (south section)	500	6,850	13,080	7,825	-	-	-	27,755
Future Transportation Projects	-	-	4,900	-	-	-	-	4,900
Granny White Pike	260	-	-	-	-	-	-	-
Johnson Chapel Road	50	-	-	-	-	-	-	-
Moores Lane	60	-	-	-	-	-	-	-
Sidewalks	105	90	50	50	50	50	50	340
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
Sunset Road	345	1,890	5,010	955	460	2,740	-	11,055
Traffic Signal Upgrades	445	405	210	-	210	-	210	1,035
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160
Source of Funds								
Capital Projects Fund	2,605	5,725	4,795	1,255	300	300	300	12,675
General Fund	760	760	1,125	955	1,165	955	1,165	6,125
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	4,900	-	460	2,440	-	7,800
Facilities Maintenance Division	-	-	50	50	50	50	50	250
Private Sources	-	-	25	-	-	-	-	25
Public Works Project Fund	-	1,000	600	-	-	300	-	1,900
Inter-Governmental Sources	8,255	4,990	12,920	7,700	-	-	-	25,610
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund	-	10	160	125	-	-	-	295
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Storm Drainage Program - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years <u>2017-22</u>
Calloway Drive	80	-	-	-	-	-	-	
Derby Glen	-	50	-	-	-	-	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	130	100	50	50	50	50	50	350
Source of Funds	1	I				1		
Capital Projects Fund	80	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	-	-	-	-	-	-	-	-
Grand Total	130	100	50	50	50	50	50	350

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Parks and Recreation Program - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years <u>2017-22</u>
Concord Park	-	20	-	-	-	-	-	20
Crockett Park	165	85	30	30	30	30	30	235
Deerwood Arboretum	-	15	-	-	-	-	-	15
Flagpole & Wikle Parks	1,955	40	-	-	-	-	-	40
Granny White Park	30	50	30	30	30	30	30	200
Marcella Vivrette Smith Park	250	2,670	200	250	2,060	-	-	5,180
Maryland Way Park	-	-	-	150	-	-	-	150
Owl Creek Park	-	60	25	-	-	-	-	85
River Park	40	-	25	-	-	-	-	25
Tower Park	15	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950
Source of Funds								
Capital Projects Fund	2,220	1,180	-	-	-	-	-	1,180
General Fund	-	-	200	400	60	-	-	660
General Fund (Unreserved Balance)	-	1,500	-	-	-	-	-	1,500
G O Bond Proceeds	-	-	-	-	2,000	-	-	2,000
Facilities Maintenance Division	225	185	110	60	60	60	60	535
Private Sources	10	75		-	-	_	-	75
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950

## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017-2022 Water and Sewer Program - Summary (000's)

<u>Projects</u>	Projected <u>FY 2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years 2017-2022
Meter Reading Program Upgrade	225	1,000	710	-	-	-	-	1,710
Miscellaneous Sewer Service Additions	_	45	45	105	405	45	45	690
Miscellaneous Sewer System Improvements	_	135	325	160	110	110	110	950
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	15	-	-	-	-	-	-	-
Sewer Rehabilitation Program	1,090	1,950	1,520	1,520	575	575	575	6,715
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	827	45	295	295	295	295	295	1,520
Water System Capacity Improvements	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665
Source of Funds								
Water & Sewer Fund	2,157	4,650	5,850	5,735	4,970	2,330	2,330	25,865
Private Sources	-	5	5	5	75	5	5	100
Water & Sewer Bond/Note Proceeds	1,006	-	-	-	-	2,350	2,350	4,700
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665

**GENERAL FACILITIES and EQUIPMENT** 

# GENERAL FACILITIES AND EQUIPMENT FISCAL YEARS 2017-2022



## City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017-2022 General Facilities and Equipment Program - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years 2017-22
Community Identity Features	-	-	15	15	15	15	15	75
Community Planning	40	50	40	-	-	-	-	90
Equipment/Vehicles	435	775	805	1,385	670	495	805	4,935
Library	70	50	50	300	50	50	50	550
Municipal Center	170	180	470	170	170	170	170	1,330
Safety Center East	25	25	25	25	25	25	25	150
Service Center	45	50	250	50	50	50	50	500
Town Center Improvements	-	-	1,300	-	-	-	-	1,300
Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930
Source of Funds		1	1		1			
Capital Projects Fund	85	50	1,300	-	-	-	-	1,350
General Fund	-	-	55	15	15	15	15	115
General Fund (Unreserved Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	-	-	-	-	-	-
Equipment Replacement Division	435	775	805	1,385	670	495	805	4,935
Facilities Maintenance Division	95	125	325	375	125	125	125	1,200
Inter-Governmental Sources	-	-	-	-	-	-	-	-
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources	-	-	-	-	-	-	-	-
Water and Sewer Fund	-	-	-	-	-	-	-	-

Grand Total	785	1,130	2,955	1,945	980	805	1,115	8,930

#### CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	<b>Community Identity Features</b>	Account #	311-45200-5026
PROGRAM	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	Community Relations
DESCRIPTION	This project provides for the in beautification improvements along	stallation of gateway entrance features the primary streets of Brentwood.	, directional signage and other
STATUS	No projects have been identified for projects as identified.	or FY 2017. Funding has been allocated	in future years for beautification

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed		-		Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction			15	15	15	15	15	75
TOTAL EXPENDITURES	-	-	15	15	15	15	15	75
SOURCE OF FUNDS								
Capital Projects Fund								
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	75

#### JUSTIFICATION

The provision of community identity features is a priority in the Brentwood 2020 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:** 

#### CITY OF BRENTWOOD, TENNESSEE

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Community Planning	Account #	311-45200-5009
PROGRAM	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	Planning and Codes
DESCRIPTION	Comprehensive Plan which was origi provides guidance in decision-makin	anning efforts of the City. This includes per nally adopted in 1999 and updated in 2006 a g as the community approaches projected l cts a special census between the normal U.S	and 2015. The 2020 Plan as amended build-out in the next 10-20 years. In
STATUS	allocated for a study to update the Pu adequately funds roadway capacity en	nplete work on the Brentwood 2020 Plan u blic Works Project Fee schedule to insure the nhancements needed to mitigate the impact of r another special census should current growt	fee assessed against new development f new development. Future funding of

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	_	Proposed FY 2021	Proposed FY 2022	
EXPENDITURE ALLOCATION								
Consultant Services	40	50						50
	40	50	40					
Special Census			40					40
TOTAL EXPENDITURES	40	50	40	-	-	-	-	90
SOURCE OF FUNDS								
Capital Projects Fund	40	50						50
General Fund			40					40
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	40	50	40	-	-	-	-	90

#### 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.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

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

0
PROJECT	Equipment/Vehicles Account # 310-43120-89520 (PW), 310-42200-89520 (Fire), 310-44400-89520 (Parks 42100-89520 (Police) 311-45200-5027 (Equipment)						arks), 310-	
PROGRAM	General Facilities &	z Equipment	t RESPONSIBLE DEPARTMENT Public Works, Fire, Parks, & Police					
DESCRIPTION	The replacement cars with specia vehicles, ladder departments othe	lized equipme trucks, brusł	nt) is funded 1 removal tru	from this acco cks, and larg	ount. Large e ger dump truc	quipment in cks. Cars, j	cludes fire eng pickups, and	gines / rescue equipment in
STATUS	Funding in FY 2 chipper truck, a replacement of a Operations (\$10 (\$30,000), and (7) FY 2016 year-end	n additional cl 1 front-end loa 5,000), a Com ) vehicles in Po	hipper truck, a der (\$150,000) bo Truck (du dice (255,000).	a backhoe and and a tractor mp bed/goose A new excava	l a Bobcat exca (\$120,000) in neck) in Parka tor (\$60,000) ir	avator. Fun Public Worl s (\$55,000), n Public Wor	ding in FY201 ks, a bucket tru rehab of Reso ks will be adde	7 will include ick in Traffic cue 1 in Fire
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	
(000'S)	FY 2016	FY 2017	FY 2018	-	-	-	I I Oposeu	Total
EXPENDITURE ALLOCATION	112010	112011		FY 2019	FY 2020	FY 2021	FY 2022	Total FY 2017-2022
				FY 2019	FY 2020	FY 2021	FY 2022	Total FY 2017-2022
Public Works Vehicles	260	435	470	FY 2019 195	FY 2020	FY 2021	FY 2022 295	
	260	435	470			FY 2021		FY 2017-2022
Public Works Vehicles	260		470	195		FY 2021		FY 2017-2022 1,665
Public Works Vehicles Fire Pumper/Ladder		30	470	195		FY 2021		FY 2017-2022 1,665 915
Public Works Vehicles Fire Pumper/Ladder Parks Equipment	55	30 55		195 885	270		295	FY 2017-2022 1,665 915 55
Public Works Vehicles Fire Pumper/Ladder Parks Equipment Police Vehicles	55	30 55		195 885	270		295	FY 2017-2022 1,665 915 55
Public Works Vehicles Fire Pumper/Ladder Parks Equipment Police Vehicles Misc. Equipment	55 120	30 55 255	335	195 885 305	270 400	495	295 510	FY 2017-2022 1,665 915 55 2,300
Public Works Vehicles Fire Pumper/Ladder Parks Equipment Police Vehicles Misc. Equipment TOTAL EXPENDITURES	55 120	30 55 255	335	195 885 305	270 400	495	295 510	FY 2017-2022 1,665 915 55 2,300
Public Works Vehicles Fire Pumper/Ladder Parks Equipment Police Vehicles Misc. Equipment TOTAL EXPENDITURES SOURCE OF FUNDS	55 120	30 55 255	335	195 885 305	270 400	495	295 510	FY 2017-2022 1,665 915 55 2,300

General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	435	775	805	1,385	670	495	805	4,935
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
TOTAL FUNDS	435	775	805	1,385	670	495	805	4,935

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

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 facility was opened in 1998 and was expan reconfigured and renovated to better meet p	ded in the fall of 2009 to 56,	• 5 /
STATUS	Funding in FY 2016 included \$25,000 in m improvements to the drive-up book-drop to This project was originally funded in FY 20 projected in FY 2017 and each year there maintenance needs as may be identified ea replacement of the roof on the library buildi	enable automatic RFID check 15 but work was not complet eafter from the Facility Mai ch year. FY 2019 includes a	k-in of all materials deposited into the drop. ed until July of 2015. Funding of \$50,000 is intenance Fund for extraordinary building

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	_	_	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Architectural Services								
Construction	45							
Facility Maintenance	25	50	50	300	50	50	50	550
Equipment								
TOTAL EXPENDITURES	70	50	50	300	50	50	50	550
SOURCE OF FUNDS								
Capital Projects Fund	45							
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	25	50	50	300	50	50	50	550
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	70	50	50	300	50	50	50	550

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 book drop automation system will provide both a savings in staff time and enhanced customer service for patrons.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

**OFFSETTING REVENUE:** 

0

PROJECT	Municipal Center	Account #	434-16200
PROGRAM	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	Finance
DESCRIPTION	Center to better meet the needs of va of the building and property. This	mprovements, space renovations and extra rious departments in providing service to th nearly 30 year old building was oversized i mited amount of surplus space is leased to a	ne public and to protect the integrity in the beginning to allow for future
STATUS	current codes. FY 2017 and 2018 fu the locker rooms that will improve	d for major maintenance that was required nding (\$50,000 total) is provided for archite male/female parity and functionality of th FY 2018 for construction, which will inclu-	ectural services for improvements to lese 30 year-old facilities. Projected

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	_	_	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Construction	150	150	450	150	150	150	150	1,200
Architectural Services	20	30	20	20	20	20	20	130
Consultant Services								
TOTAL EXPENDITURES	170	180	470	170	170	170	170	1,330
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
<b>Facilities Maintenance Division</b>								
Inter-Governmental Sources								
Municipal Center Fund	170	180	470	170	170	170	170	1,330
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	170	180	470	170	170	170	170	1,330

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 provide 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.

### PROGRAM AND FACILITY COSTS:

Personnel Services Operating Expenditures Debt Service	15
ANNUAL OPERATING BUDGET IMPACT (000'S):	15
(improvements increase annual depreciation expense for the Municipal Center Fund)	
OFFSETTING REVENUE:	

PROJECT	Safety Center East	Account #	311-45200-5014 (Safety Center East CIP) 312-42200-89600 (Facilities Maintenance)
PROGRAM	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	F Public Works (Salt Bldg.) Fire (Maintenance)
DESCRIPTION		1	Center East which includes Fire Station #4, orks salt storage building, and fuel facility.
STATUS	0	· • •	d annually for extraordinary repair projects l exterior building and parking lot lighting to

PROJECT BUDGET	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	_	_	Proposed FY 2022	
(000'S) EXPENDITURE ALLOCATION	F Y 2010	FY 2017	F Y 2018	F Y 2019	F Y 2020	FY 2021	F Y 2022	FY 2017-2022
Engineering Services								
Engineering Services								
Construction								
Facility Maintenance	25	25	25	25	25	25	25	150
TOTAL EXPENDITURES	25	25	25	25	25	25	25	150
SOURCE OF FUNDS	23	25	23	23	25	23	25	150
Capital Projects Fund								
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	25	25	25	25	25	25	150

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

**OFFSETTING REVENUE:** 

0

PROJECT	Service Center	Account #	311-45200-5005 312-43170-89600 (Facilities Maintenance)
PROGRAM	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION	houses the operations for the Publ	ic Works, Parks, Water Services an	n General George Patton Drive. The facility d Engineering departments as well as Fire t, the chipper transfer facility, and one of the
STATUS	maintenance building. For FY's 20	17 - 2022 funding provided for extrao	tation #3 and upgrades to bay doors on the ordinary repairs and maintenance as may be d storage yard is tentatively planned for FY

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	-	_	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction			250					250
Facility Maintenance	45	50		50	50	50	50	250
TOTAL EXPENDITURES	45	50	250	50	50	50	50	500
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
Facilities Maintenance Division	45	50	250	50	50	50	50	500
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	45	50	250	50	50	50	50	500

Providing enhanced multi-media capabilities at the Service Center will allow for better communication between the Emergency Operations Center and Service Center departments during emergencies. Also, the original facility requires periodic repairs and improvements in the future to ensure effective operation and to protect the City's investment.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services0Operating Expenditures0Debt Service0

# **OFFSETTING REVENUE:**

0

PROJECT	Town Center Improvements	Account #	311-45200-5013
PROGRAM	General Facilities & Equipment	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION		e purchase of land, design, and/or constructions, etc. within the Town Center District.	on of public improvements such as
STATUS	upgrade of a small section of Pew	ed to this account in the Capital Projects Fund vitt Drive during CY 2010. The remaining anticipated for FY 2017. FY 2018 funding is project be identified.	\$1.3 million is available should

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018		_	_	Proposed FY 2022	Total FY 2017-2022
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								
<b>Equipment Replacement Division</b>								
<b>Facilities Maintenance Division</b>								
Inter-Governmental Sources								
Municipal Center Fund								
Private Sources								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	-	-	1,300	-	-	-	-	1,300

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

**OFFSETTING REVENUE:** 

0

0

# TECHNOLOGY

# TECHNOLOGY FISCAL YEARS 2017-2022



# City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Technology Program - Summary (000's)

Duriante	Projected 2016	FY 2017	FY 2018	FY 2010	FY 2020	FY 2021	FY	Total 6 Years
<u>Projects</u>	2010	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2017-22</u>
Computer Equipment	485	490	360	385	205	560	340	2,340
Emergency Communications Center	55	750	_	_	-	-	-	750
Fiber Optic Network	210	140	150	85	-	-	-	375
GIS	-	-	150	_	-	60	-	210
Radio System	285	3,600	300	_	-	-	-	3,900
Software Systems	60	195	-	25	15	15	15	265
Warning Sirens	-	-	30	-	30	-	30	90
Grand Total	1,095	5,175	990	495	250	635	385	7,930
Source of Funds Capital Projects Fund	520	4,685	300	1				4,985
General Fund		-	270	- 85	- 30	- 35	- 30	4,983
General Fund (Unrestricted Balance)	-	-	270		-			430
G O Bond Proceeds				_		_		
Equipment Replacement Division	520	490	360	410	220	575	355	2,410
Facilities Maintenance Division	-	-	-	-	-	-	-	
Inter-Governmental Sources	_	_	_	_	_	_	_	_
Municipal Center Fund	_	-	-	_	-	-	-	
Water and Sewer Fund	_	-	60	_	-	25	-	85
ECD Fund	55	-	-	-	-	-	-	-
Grand Total	1,095	5,175	990	495	250	635	385	7,930

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Computer Equipment	Account # 310-41640-89540 (Hardware Repl.)	
PROGRAM	Technology	RESPONSIBLE DEPARTMENT Technology	
DESCRIPTION	replacement of computer hardware an	of specialized computer and communications equipment and the sy l equipment including desktop computers, network servers, etc. Deci omprehensive, six year replacement schedule with annual review and up	isions on
STATUS	computers in the Police Department, computers at the Library, and compu datacenter (\$140,000), replacement of Police, 27 computers and 10 iPads in Replacement of some items is based u	or a variety of replacements, including 35 mobile data terminals and network storage at the Municipal Center and Library, 62 repl ter infrastructure FY 2017 funding includes network storage for th 29 remaining mobile data terminals (\$60,000) and 18 computers (\$45 the Library (\$50,000), and other computers and devices in city depa boon the condition and performance of the item at that time, and som aay be delayed to FY 2018 or later if the item's performance is satisfact	acement ne City's 5,000) in rtments. ne items

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	_		Proposed FY 2022	
EXPENDITURE ALLOCATION								
Computer/Hardware/Equipment	485	490	360	385	205	560	340	2,340
Mobile Data/GPS Equipment								
Disaster Recovery System								
TOTAL EXPENDITURES	485	490	360	385	205	560	340	2,340
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	485	490	360	385	205	560	340	2,340
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	485	490	360	385	205	560	340	2,340

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):

(periodic replacement reduces on-going maintenance cost)

**OFFSETTING REVENUE:** 

0

PROJECT	Emergency Communications Center	Account #	450-13080
PROGRAM	General Facilities & Equipment	RESPONSIBLE DEPARTMENT	Police/Fire/Technology
DESCRIPTION		e 911 Phone Controller, CAD software a 11 and emergency communications center.	nd other equipment needed to
STATUS	current CAD system was not completed d is the Computer Aided Dispatch system the response to emergency calls for service. CAD system, using the same vendor curr	ded a call logging recorder and mapping ue to the inability of the City's current vende nat enables dispatchers to electronically coor FY 2017 funding includes a change of ve ently used by the City of Franklin. Funding through a 2016 year-end transfer of ECD ref	or to develop the upgrade. CAD dinate public safety resources in ndors and installation of a new g of \$750,000 will be provided to

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	_	_	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Architecture/Engineering								
Electrical/Generator								
Computer Equipment	15							
Communication Equipment	40	750						750
Computer Software								
Construction								
TOTAL EXPENDITURES	55	750	-	-	-	-	-	750
SOURCE OF FUNDS								
Capital Projects Fund		750						750
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division								
<b>Facilities Maintenance Division</b>								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund	55							
TOTAL FUNDS	55	750	-	-	-	-	-	750

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	
<b>Operating Expenditures (General Fund and ECD)</b>	150
Debt Service	
(Annual CE contribution to took along you locomout fund - \$75,000)	
(Annual GF contribution to technology replacement fund = \$75,000)	
(Annual ECD maintenance contract = \$75,000)	
	150

# **OFFSETTING REVENUE:**

PROJECT	Fiber Optic Network	Account #	311-45300-6005
PROGRAM	Technology	RESPONSIBLE DEPARTME	ENT Technology
DESCRIPTION	This program provides for the expans for City operations as well as the traffi	v i	work which serves both data and voice needs /traffic operations center.
STATUS	Pike along Sunset/Ragsdale/Split Log northern fiber loop along Wilson Pike fiber connection on General George northern loop is programmed for FY 2 along Franklin Road between Concord	roads. FY 2017 funding incluc between Concord Road and Ch Patton Drive to Franklin's fil 018 (\$150,000). FY 2019 fundin Road and Moores Lane followin and utility make ready work for	oop between Safety Center East and Wilson des design and utility make ready work for a nurch Street (\$100,000), and construction of a ber network (\$40,000). Construction of the ng provides for extension of the fiber network ng completion of the Franklin Road widening the northern fiber loop in FY 2017 is subject pital Projects Fund.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION	112010	F I 2017	11 2010	1 1 2017	1 1 2020	1 1 2021	I I 2022	112017-2022
<b>F</b>	(0)	100		10				110
Engineering	60	100		10				110
Construction	150	40	150	75				265
TOTAL EXPENDITURES	210	140	150	85	-	-	-	375
SOURCE OF FUNDS								
Capital Projects Fund	210	140						140
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	210	140	150	85	-	-	-	375

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 will provide for exchange of CAD, GIS, traffic camera video, and be a vital link from Williamson County to Nashville's existing 800MHz radio system, thus connecting the two systems to allow the new radio system to talk all over Middle Tennessee.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services	
Operating Expenditures (net)	
Debt Service	

ANNUAL OPERATING BUDGET IMPACT (000'S):

(pole attachment fees to utilities)

**OFFSETTING REVENUE:** 

10

10

PROJECT	GIS	Account # 311-4530	0-6008
PROGRAM	Technology	<b>RESPONSIBLE DEPARTMENT</b>	Technology
DESCRIPTION	the community. The City v	eriodic updates to the City's computerized mapping works closely with Williamson County and the City ucing the cost for all jurisdictions.	
STATUS	8	be a complete orthophotography fly-over and 1g is provided in 2021 for an interim update of aeria	

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	_	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
GIS			150			60		210
TOTAL EXPENDITURES	-	-	150	-	_	60	-	210
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			90			35		125
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
<b>Equipment Replacement Division</b>								
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund			60			25		85
ECD Fund								
TOTAL FUNDS	-	-	150	-	-	60	-	210

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	<b>RESPONSIBLE DEPARTME</b>	ENT Technology
DESCRIPTION		1 0	adio communication system that serves the ling Water & Sewer and Public Works.
STATUS	entire county. When impleme Williamson County to commun Metro Nashville 800 MHz syste approximately \$4.1 million. As authority prior to the end of FY equipment work would begin i revenues to the Capital Projects	ented, the new system will enable icate using the same technology and em. Preliminary cost estimates show suming a system contract with Moto 7 2016 and funding is approved by t in FY 2017. Special year-end trans 5 Fund in 2013, 2014, and 2015 pre-f	rable 700 MHz radio network to cover the all public safety agencies and schools in d will also provide interconnection with the Brentwood's share of the system cost to be orola is approved by the joint radio system he Commission, infrastructure and network sfers of \$1,000,000 of excess General Fund unded \$3,000,000 of needed funding for this nd transfer of excess General Fund revenues

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	-		Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	85							
Equipment	200	3,600	300					3,900
Construction								
TOTAL EXPENDITURES	285	3,600	300	-	-	-	-	3,900
SOURCE OF FUNDS								
Capital Projects Fund	285	3,600	300					3,900
General Fund								
General Fund (Unrestricted Balance)								
G.O. Bond Proceeds								
Equipment Replacement Division								
<b>Facilities Maintenance Division</b>								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	285	3,600	300	-	-	-	-	3,900

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 Services250Operating Expenditures250Debt Service
	ANNUAL OPERATING BUDGET IMPACT (000'S): 250
	(New system would require annual maintenance fees, beginning in FY 2018 plus replacement reserves for subscriber units) OFFSETTING REVENUE:

PROJECT	Software Systems		311-45300-6002 (GEMS), 6011 (Website), 310- 41640-89550 (ERF)
PROGRAM	Technology	<b>RESPONSIBLE DEPARTME</b>	ENT Technology
DESCRIPTION	operating systems and special	ized departmental software to better h clude general ledger and payroll syste	of basic software required for system wide aandle day to day work tasks. For example, ems, codes and development tracking, court
STATUS	which includes an interface to This project is postponed pen proposed for FY2017, which v	o the CAD system. The product including upgrade/replacement of the City	rting system known as Locution (\$180,000), udes heart saver toning and voice dispatch. 's CAD system. CAD replacement is being ed. FY 2017 also includes completion of the bus software licensing.

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Miscellaneous Software	35			25	15	15	15	70
Specialized Department Software	25	195						195
TOTAL EXPENDITURES	60	195	-	25	15	15	15	265
SOURCE OF FUNDS								
Capital Projects Fund	25	195						195
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Equipment Replacement Division	35		-	25	15	15	15	70
Facilities Maintenance Division								
Inter-Governmental Sources								
Municipal Center Fund								
Water and Sewer Fund								
ECD Fund								
TOTAL FUNDS	60	195	-	25	15	15	15	265

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 as our replacement station alerting software will enable the Communications Center to upgrade to CAD 10 and will provide improved and improved tone-out process at all Brentwood fire stations.

### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

15

ANNUAL OPERATING BUDGET IMPACT (000'S):

15

#### **OFFSETTING REVENUE:**

PROJECT	Warning Sirens	Account #	311-45300-6001	
PROGRAM	Technology	RESPONSIBLE DEPARTMENT	Г	Technology
DESCRIPTION	This project provides for periodic expansion any gaps in coverage area and to serve newl	•	gency warning	siren system as needed to fill
STATUS	Funding in FY 2015 was provided for the Smith Park. No new locations have been expansion or replacement sirens as may be	identified at this time. Period		•

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018		-		Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Warning Siren			30		30		30	90
TOTAL EXPENDITURES	-	-	30	-	30	-	30	90
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund			30		30		30	90
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	-	-	30	-	30	-	30	90

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 Debt Service

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

**OFFSETTING REVENUE:** 

1

1

# TRANSPORTATION

# TRANSPORTATION FISCAL YEARS 2017-2022



# City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Transportation - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years <u>2017-22</u>
Bikeway Improvements	-	150	160	175	175	175	175	1,010
Carothers Parkway	330	105	-	-	-	-	-	105
Concord Road (west of Arrowhead Drive)	3,435	400	-	-	-	-	-	400
Concord Road (east of Edmondson Pike)	5,000	1,000	-	-	-	-	-	1,000
Crockett Road	30	445	85	-	-	-	-	530
Franklin Road (south section)	500	6,850	13,080	7,825	-	-	-	27,755
Future Transportation Projects	-	-	4,900	-	-	-	-	4,900
Granny White Pike	260	-	-	-	-	-	-	-
Johnson Chapel Road	50	-	-	-	-	-	-	-
Moores Lane	60	-	-	-	-	-	-	-
Sidewalks	105	90	50	50	50	50	50	340
Street Lighting	-	-	20	20	20	20	20	100
Street Resurfacing	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930
Sunset Road	345	1,890	5,010	955	460	2,740	-	11,055
Traffic Signal Upgrades	445	405	210	-	210	-	210	1,035
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160
Source of Funds								
Capital Projects Fund	2,605	5,725	4,795	1,255	300	300	300	12,675
General Fund	760	760	1,125	955	1,165	955	1,165	6,125
General Fund (Unrestricted Balance)	-	-	-	-	-	-	-	-
G O Bond Proceeds	-	-	4,900	-	460	2,440	-	7,800
Facilities Maintenance Division	-	-	50	50	50	50	50	250
Private Sources	-	-	25	-	-	-	-	25
Public Works Project Fund	-	1,000	600	-	-	300	-	1,900
Inter-Governmental Sources	8,255	4,990	12,920	7,700	-	-	-	25,610
State Street Aid Fund	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund	-	10	160	125	-	-	-	295
Grand Total	12,460	14,265	25,715	11,225	3,115	5,185	2,655	62,160

PROJECT	<b>Bikeway Improvements</b>			Ac	count #	311-43100-1001		
PROGRAM	Transportation		RI	RESPONSIBLE DEPARTMENT			Parks/Recreation	
DESCRIPTION	This project prov other primary po certain new roady and on-road bike	oints of interest way projects. T	. This project is The ultimate goa	in addition to l is to have a C	separated bike City-wide bikew	eway segments t ay system consi	that are inclu sting of both	ded as part of
STATUS	Subject to a FY funding is progra the recently appr connections along front of the Some of the residential existing trails and	mmed in FY 2 roved subdivisi gCrockett Road rset subdivision subdivision pro	017 to connect t ion on the May d via the Wither n. Actual timing ojects. Future f	the Forest of Br property. FY spoon subdivisi g for both of the unding for FY	rentwood and V 2018 funding on with the dev ese projects will	Waterford subd is provided to veloper funding l be determined	ivisions to Sca complete the the trail segn by the pace of	ales School via planned trail nent across the f development
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION						-		
Engineering		10	10	10	10	10	10	60
Right of Way Acquisition								
Utility Relocation								
Construction		140	150	165	165	165	165	950
TOTAL EXPENDITURES	-	150	160	175	175	175	175	1,010
SOURCE OF FUNDS								
Capital Projects Fund		150						150
General Fund			85	125	125	125	125	585
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
Facilities Maintenance Division			50	50	50	50	50	250
Private Sources			25					25
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund TOTAL FUNDS				175				

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.

#### **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	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION	eastbound Moore's Lane. This westbound Moore's Lane toward	ddition of a new dedicated right turn lane on n new lane will allow for two northbound thru la I-65. The turn lane will be approximately 250 feet relieve a drainage problem in the northbound Caro	anes to continue from Carothers to in length. Also included in this scope
STATUS	Design of these improvements w mid-summer of 2016.	as completed in fall of 2015 and construction is un	nderway and expected to be complete

PROJECT BUDGET	Projected	Proposed	Proposed	-	-	-	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	30	10						10
<b>Right of Way Acquisition</b>								
Utility Relocation								
Construction	300	95						95
TOTAL EXPENDITURES	330	105	-	-	-	-	-	105
SOURCE OF FUNDS								
Capital Projects Fund	330	105						105
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds								
<b>Facilities Maintenance Division</b>								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	330	105	-	-	-	-	-	105

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 2020 Update.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

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

**OFFSETTING REVENUE:**
PROJECT	Concord Road (west of Arrowhead Drive) Transportation			Account # RESPONSIBLE DEPARTMENT			311-43100-1021		
PROGRAM							Public Works		
DESCRIPTION	This project provides for improvements to a substandard section of Concord Road between Jone Arrowhead Drive. Included is a 3 lane, curb and gutter road section, a separated bikeway on the south from Arrowhead Drive to Wilson Pike, a sidewalk on the north side from Arrowhead Drive to Jones Pa relocation of affected utilities.								
STATUS	secure \$3.64 milli summer 2016. W water line with a General Fund res	The City paid 100% for design and ROW acquisition plus a 20% local match of construct secure \$3.64 million in Federal funding that has been allocated through the MPO. Constr summer 2016. With regards to City utilities, this project has required the relocation of 1,8 water line with a portion of the cost subject to reimbursement from federal funds. Fundin General Fund reserves was also reflected here for installation of an extended right turn la to northbound I-65, to be completed by summer 2016.							
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total	
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022	
EXPENDITURE ALLOCATION									
Engineering									
Right of Way Acquisition									
Utility Relocation									
Construction	3,435	400						400	
TOTAL EXPENDITURES	3,435	400	-	-	-	-	-	400	
SOURCE OF FUNDS									
Capital Projects Fund	790	80						80	
General Fund									
General Fund (Unrestricted Balance)									
G O Bond Proceeds									
Facilities Maintenance Division									
Private Sources									
Public Works Project Fund									
Inter-Governmental Sources	2,645	320						320	
State Street Aid Fund									
Water and Sewer Fund									
TOTAL FUNDS	3,435	400	_	_	_	_	-	400	

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 or will be improved from Arrowhead Drive east to Nolensville Road.

#### PROGRAM AND FACILITY COSTS:

Personnel Services Operating Expenditures Debt Service

#### ANNUAL OPERATING BUDGET IMPACT (000'S):

0

0

(Concord Road is the maintenance responsibility of TDOT)

PROJECT	Concord Road (eas	Concord Road (east of Edmondson Pike)			Account #			311-43100-1003		
PROGRAM	Transportation			<b>RESPONSIBLE DEPARTMENT</b>			Public Works			
DESCRIPTION	This project provides for improvements to a 3.6 mile section of Concord Road from Edmondson Pike to Nolensvill Road. The project will include a continuous three (3) lane pavement section with curb and gutter within a 94 for wide ROW. Also included will be a continuous ten (10) foot wide separated bikeway/walkway built a minimum fou (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 relocations/road to the eastern ci expenditures are	construction a ity limits is u	nd ROW acqu nderway and <sub>]</sub>	isition outside	of Brentwood.	Construction	on Phase 2 fro	om Sunset Rd.		
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total		
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022		
EXPENDITURE ALLOCATION										
Engineering										
<b>Right of Way Acquisition</b>										
Utility Relocation										
Construction	5,000	1,000						1,000		
TOTAL EXPENDITURES	5,000	1,000	-	-	-	-	-	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	5,000	1,000						1,000		
State Street Aid Fund	- )	,						,,		
Water and Sewer Fund										
TOTAL FUNDS	5,000	1,000	-	-	-	-	-	1,000		

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	
<b>Operating Expenditures</b>	
Debt Service	

(Concord Road is the maintenance responsibility of TDOT)

**OFFSETTING REVENUE:** 

0

0

PROJECT	Crockett Road	Crockett Road		Account #			311-43100-1042						
PROGRAM	Transportation			RESPONSIBLE DEPARTMENT			Public Works						
DESCRIPTION		This project provides for the design and construction of a traffic roundabout at the intersection of Crockett Road and Raintree Parkway/Green Hill Boulevard.											
STATUS	Engineering desi affected utilities \$460,000 from th transfer of exces based on planni during FY 2016.	in a timely n he Capital Pro s revenues fro ng level const	nanner. Fundi jects Fund as o m the General	ng for the tota riginally alloca Fund to the Ca	al project (\$56 ited in FY 2016 pital Projects I	0,000) is prov 5 and \$100,000 Fund. The ext	ided by a co ) from a FY 2 ra \$100,000 i	ombination of 2016 year-end s being added					
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total					
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022					
EXPENDITURE ALLOCATION													
Engineering	30	35	10					45					
Right of Way Acquisition		15						15					
Utility Relocation		20						20					
Construction		375	75					450					
TOTAL EXPENDITURES	30	445	85	-	-	-	-	530					
SOURCE OF FUNDS													
Capital Projects Fund	30	445	85					530					
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	30	445	85					530					

Peak-hour traffic volumes at this intersection are such that the current 4-way stop creates considerable queuing and leads to longer commutes. An analysis by the City's traffic engineering consultants determined that a roundabout would significantly improve peak hour traffic flow at this intersection. 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 2020 Update.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

**OFFSETTING REVENUE:** 

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

0

PROJECT	Franklin Road (south section)			Account #			311-43100-1016			
PROGRAM	Transportation			<b>RESPONSIBLE DEPARTMENT</b>			Public Works			
DESCRIPTION	proposed improve	This project provides for the widening of 2.2 miles of Franklin Road from West Concord Road south to proposed improvements include a curb and gutter section with four (4) driving lanes plus a continuous addition, the project will include a 10 ft. wide separated bikeway/walkway on the east side of the roa behind the curb.								
STATUS	construction cost. to be completed b not guaranteed. ( prior years. City	The City is paying for engineering and a portion of ROW acquisition with TDOT paying for ut construction cost. Preliminary engineering work is complete. ROW appraisals and acquisition are und to be completed by fall of 2016. It is hoped that TDOT will provide construction funding beginning in not guaranteed. City funding for ROW acquisition costs is currently available in the Capital Projects prior years. City utility relocation costs will be approximately \$2.0 million, of which about 85% sh from TDOT. Estimates for utility relocation are subject to change due to pipe sizing requirements								
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total		
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022		
EXPENDITURE ALLOCATION										
Engineering		120						120		
Right of Way Acquisition	500	3,680						3,680		
Utility Relocation		50	1,080	825				1,955		
Construction		3,000	12,000	7,000				22,000		
TOTAL EXPENDITURES	500	6,850	13,080	7,825	-	-	-	27,755		
SOURCE OF FUNDS								,		
Capital Projects Fund	100	3,385						3,385		
General Fund		-,						0,000		
General Fund (Unrestricted Balance)										
G O Bond Proceeds										
Facilities Maintenance Division										
Private Sources										
Public Works Project Fund										
Inter-Governmental Sources	400	3,455	12,920	7,700				24,075		
State Street Aid Fund				·				~		
Water and Sewer Fund		10	160	125				295		
TOTAL FUNDS	500	6,850	13.080	7,825			_	27,755		

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):** 

**OFFSETTING REVENUE:** 

0

PROJECT	Future Transportation Projects	Account #					
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works				
DESCRIPTION	projects as may be identified by the	This project reserves funds from the planned FY 2018 (CY 2017) G.O. Bond issue for future road projects as may be identified by the Major Thoroughfare Plan update, the joint Brentwood/Metro N study, or other transportation planning efforts.					
STATUS		ied at this time. With completion of severa in the various studies and present project s.					

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed				Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering			500					500
Right of Way Acquisition								
Utility Relocation								
Construction			4,400					4,400
TOTAL EXPENDITURES	-	-	4,900	-	-	-	-	4,900
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unrestricted Balance)								
G O Bond Proceeds			4,900					4,900
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	-	-	4,900	-	-	-	-	4,900

As reflected in the 2020 Update community surveys, traffic and transportation related issues are the primary concern of the community and will continue be a challenge as Brentwood and the surrounding communities experience consistently strong growth. Several transportation related studies currently underway will assist in determining priorities for future transportation related projects.



PROJECT	Granny White Pike	Account #	311-43100-1040
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION	Murray Lane. The existing westbound left	second left turn lane from southbound Gra turn lane into the Brass Lantern subdivision estbound through lane on Murray will becom	on Murray Lane will become
STATUS	Construction was completed in the summer of Capital Projects Fund at the end of FY 2015.	of 2015, expedited by a transfer of General Fu	nd unrestricted reserves to the

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018		Proposed FY 2020		Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION	FT 2010	11 2017	11 2010	11 2017	11 2020	11 2021	11 2022	11 2017-2022
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	260							
TOTAL EXPENDITURES	260	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	260							
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	260	-	-	-	-	-	-	-

Traffic volumes as a result of school-related traffic and evening peak-hour traffic causes significant left-turn queuing in the southbound lanes of Granny White Pike at the intersection with Murray Lane. This impedes the flow of thru traffic as well as vehicles turning right onto Murray Lane. This is one of several projects identified as high impact/low cost options to help relieve congestion on Brentwood roadways - a top concern identified by residents as part of the Brentwood 2020 Update.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Johnson Chapel Road	Account #	311-43100-1039
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION	Court (adjacent to the pond). C	• safety improvements to the curve on Johnson hanges will include minor widening of the shoul he Water Services construction project in this a	lder to soften the curve and repaving.

STATUS Construction is expected to be completed by the end of FY 2016.

the east and south sides of the pond.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018					
EXPENDITURE ALLOCATION								
Engineering								
Right of Way Acquisition								
Utility Relocation								
Construction	50							
TOTAL EXPENDITURES	50	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	50							
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	50	-	-	-	-	-	-	-

The design of the roadway at this curve in Johnson Chapel Road presents safety concerns that must be mitigated. The lack of roadway shoulders presents a challenge to longer wheel base vehicles such as school buses when trying to remain inside travel lanes.

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

PROJECT	Moores Lane	Account #	311-43100-1041						
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works						
DESCRIPTION	of the grass median will be rea	This project provides for the extension of the Moores Lane eastbound left turn lane onto Westgate Circle. A portion of the grass median will be removed for extension of the existing westbound left turn lane into the Westgate Commons development, which will add approximately 225 feet of additional stacking for a total left turn lane length of 400' +/							
STATUS	Construction on this relatively	y small project was completed late in calendar year	2015.						

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018				Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	5							
Right of Way Acquisition								
Utility Relocation								
Construction	55							
TOTAL EXPENDITURES	60	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund	60							
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
<b>Facilities Maintenance Division</b>								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	60	-	-	-	-	-	-	-

Eastbound thru traffic on Moores Lane is impeded in peak hours by vehicles turning left onto Westgate Circle due to insufficient capacity in the left turn lane. By lengthening the turn lane, the additional storage should provide better travel times for thru traffic. 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 2020 Update.

# LOCATION MAP PROGRAM AND FACILITY COSTS: Personnel Services Operating Expenditures Debt Service ANNUAL OPERATING BUDGET IMPACT (000'S): 0 FSETTING REVENUE:

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Sidewalks	Account #	311-43100-1006
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION			

DESCRIPTION This program provides for the construction of new sidewalks, primarily along arterial and collector streets and in commercial areas where sections are missing, and reconstruction of deteriorated sidewalks where needed throughout the city.

STATUS Funding in FY 2016 included completion of the Centerview Drive sidewalks (\$40,000) and work is expected to be completed by the end of FY 2016 on replacement of damaged sidewalk segments along Franklin Road in the northern commercial area and the Montclair subdivision. FY 2017 funding (\$90,000) provides for completion of pedestrian crossing and ADA curb ramp improvements in the northern commercial area as recommended by the joint Brentwood/Metro traffic study, subject to a FY 2016 year-end transfer to the Capital Projects Fund from General Fund excess revenues. Future funding in FY 2018 and beyond is for other sidewalk improvement projects as may be identified from year to year.

PROJECT BUDGET	Projected	Proposed						
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction	105	90	50	50	50	50	50	340
TOTAL EXPENDITURES	105	90	50	50	50	50	50	340
SOURCE OF FUNDS								
Capital Projects Fund	105	90						90
General Fund			50	50	50	50	50	250
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	105	90	50	50	50	50	50	340

Sidewalks are being used more and more for travel and exercise. The focus of this program is to complete missing sections in the network and to maintain existing ones in good condition. These improvements encourage safe and convenient pedestrian movement and hopefully reduce the number of vehicles on City streets during peak hours.

#### PROGRAM AND FACILITY COSTS:

Personnel Services Operating Expenditures Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

5

5

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Street Lighting	Account #	110-43160-89505 311-43100-1030
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION	This program provides for the installation primarily along arterial or collector road	on of new and/or improved roadway lighting s and within the commercial districts.	and other associated upgrades,

STATUSNo project has been identified for FY 2017. Future funding is allocated for projects if and when they are identified.<br/>Potential future projects include retrofitting existing street lights to LED fixtures. Pricing is expected to improve as<br/>more cities implement LED street lights and more suppliers enter the market.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018				Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION	F 1 2010	F1 2017	F 1 2018	F 1 2019	F 1 2020	F 1 2021	F 1 2022	F1 2017-2022
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

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):

**OFFSETTING REVENUE:** 

0

PROJECT	Street Resurfacing	Account #	121-43120-82640
PROGRAM	Transportation	RESPONSIBLE DEPARTMENT	Public Works
DESCRIPTION		nnual resurfacing of City streets under the City's n accordance with an annual field assessment wh	
STATUS	to be carried over to FY 2017. Aid Fund is proposed due to i annual budget amount for pay comprehensive video condition resurfacing planning. Funding revenues to the Capital Project Projects Fund is anticipated in	geted FY 2016 amount reflects \$640,000 in paving For FY 2017 and beyond, an increase of \$100,0 ncreased revenues as a result of the FY 2015 sp ing across all funds to \$2,200,000. FY 2017 fund a assessment of all city maintained streets to ex- for this assessment is subject to a FY 2016 year- ets Fund. Another \$300,000 direct transfer from FY 2017 to provide advance funding for FY 201 assumes a continuation of an annual \$300,000 trans-	00 in funding from the State Street ecial census. This will increase the ing (\$90,000) is also proposed for a stablish a new baseline for future end transfer of \$90,000 from excess n the General Fund to the Capital 18 resurfacing needs. The proposed

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019			Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Professional Services		90						90
Construction	1,900	2,840	2,200	2,200	2,200	2,200	2,200	13,840
TOTAL EXPENDITURES	1,900	2,840	2,200	2,200	2,200	2,200	2,200	13,930
SOURCE OF FUNDS		,	,	,	,	,	,	,
Capital Projects Fund	300	390	300	300	300	300	300	1,890
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	840	1,780	1,140	1,140	1,140	1,140	1,140	7,480
Water and Sewer Fund								
TOTAL FUNDS	1,900	2,930	2,200	2,200	2,200	2,200	2,200	13,930

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. 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	10
(annual resurfacing helps reduce routine maintenance expenses)	
ANNUAL OPERATING BUDGET IMPACT (000'S):	10

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Sunset Road	Account #	311-43100-1027
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION	This project provides for impr	ovements to Sunset Road from Concord Road to Wa	aller Road, including relocation of the

ION 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 Proposed improvements provide for relocation of the intersection approximately 800 feet to the east along Sunset Road. The 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. Engineering design is underway with construction planned to begin early in calendar year 2017. Proposed funding sources for the estimated \$8.2 million project include fiscal year-end transfers of General Fund excess revenues (\$1.5 million in FY 2015 and \$300,000 in 2016), \$4.8 million from unrestricted General Fund reserves (in lieu of bonds), and \$1.6 million in Public Works Project Fees generated by new development (\$1 million in FY 2017 and \$600,000 in FY 2018). Proposed improvements in FY 2020-21 include widening of Sunset Road from the new bridge north to Concord Road, subject to issuance of \$2.9 million in G.O. bonds in FY 2020.

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	345	190	10	5	320			525
<b>Right of Way Acquisition</b>		700			140			840
Utility Relocation								
Construction		1,000	5,000	950		2,740		9,690
TOTAL EXPENDITURES	345	1,890	5,010	955	460	2,740	-	11,055
SOURCE OF FUNDS								
Capital Projects Fund	345	890	4,410	955				6,255
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds					460	2,440		2,900
Facilities Maintenance Division								
Private Sources								
Public Works Project Fund		1,000	600			300		1,900
Inter-Governmental Sources								
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	345	1,890	5,010	955	460	2,740	-	11,055

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

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

0

PROJECT	Traffic Signal Upgrades	Account #	311-43100-1007
PROGRAM	Transportation	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION		llation of new traffic signals with mast ar ns and equipment, and signal synchronization	1 0
STATUS	replacements/upgrades (\$155,000), an required to implement the new sign (\$25,000) will be moved to FY 2017 a federally funded signal timing study (\$215,000) as well as various equipt control cabinets at Wilson Pike/Chu cameras and 2 new cameras at Belle H \$165,000 in Capital Projects Fund is a	clude the joint traffic study with M ad Maryland Farms area intersection signal a al timing plans. A new traffic monitoring s the City awaits TDOT installation of the p- y of Concord Road, Moore's Lane, Wilson ment upgrades including battery back-ups urch and Church/Wilson Pike Circle (\$30, Rive/Granny White and Crockett/Volunteer I contingent upon a FY 2016 year-end transfer funding is allocated for a new signal bi-an t meet required warrants.	and striping improvements (\$55,000) g camera at I-65 and Moores Lane ole. Also included in FY 2017 is the Pike and Murray Lane corridors at 7 intersections (\$70,000), traffic 000), 18 replacement digital traffic Pkwy (\$65,000). FY 2017 funding of of excess General Fund revenues to

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	
EXPENDITURE ALLOCATION								
Engineering	235	215	10		10		10	245
Equipment Upgrades	210	190						190
Extraordinary Repairs								
Construction			200		200		200	600
TOTAL EXPENDITURES	445	405	210	-	210	-	210	1,035
SOURCE OF FUNDS								
Capital Projects Fund	235	190						190
General Fund			210		210		210	630
General Fund (Unreserved Balance)								
G O Bond Proceeds								
<b>Facilities Maintenance Division</b>								
Private Sources								
Public Works Project Fund								
Inter-Governmental Sources	210	215						215
State Street Aid Fund								
Water and Sewer Fund								
TOTAL FUNDS	445	405	210	-	210	-	210	1,035

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 Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

10

10

# **STORM DRAINAGE**

# STORM DRAINAGE FISCAL YEARS 2017-2022



# City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Storm Drainage Program - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years <u>2017-22</u>
Calloway Drive	80	-	-	-	-	-	-	
Derby Glen	-	50	-	-	-	_	-	50
Subdivision Drainage	50	50	50	50	50	50	50	300
Grand Total	130	100	50	50	50	50	50	350
Source of Funds	1 1	I		1	1	1		
Capital Projects Fund	80	50	-	-	-	-	-	50
General Fund	50	50	50	50	50	50	50	300
G O Bond Proceeds	_	-	-	-	-	-	-	-
Grand Total	130	100	50	50	50	50	50	350

# CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Calloway Drive	Account #	311-43150-2012
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMEN	NT Public Works
DESCRIPTION	Drive and Heathrow Hills Drive in the He	eathrow Hills subdivision. T placed with reinforced concr	lvanized storm drain pipe under Calloway The galvanized pipe has failed, allowing the rete pipe and roadway cuts will be repaved. nlet catch basins.

STATUS The project will be completed by the end of FY 2016.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020		Proposed FY 2022	
EXPENDITURE ALLOCATION								
Engineering Services								
Construction	80							
TOTAL EXPENDITURES	80	_	_	-	_	_	_	_
SOURCE OF FUNDS Capital Projects Fund	80							
General Fund G O Bond Proceeds								
TOTAL FUNDS	80	-	-	-	_	_	_	_

This storm drain pipe under Calloway Drive and Heathrow Hills Drive has failed. Temporary repairs have been made until the existing pipe can be replaced.

# PROGRAM AND FACILITY COSTS:

Personnel Services
Operating Expenditures
Debt Service
(Improvements lower routine maintenance/repairs for
department)
ANNUAL OPERATING BUDGET IMPACT (000'S):
0

PROJECT	Derby Glen	Account #	311-43150-2007	
PROGRAM	Storm Drainage	RESPONSIBLE DEPARTMEN	NT	Public Works
DESCRIPTION	This project will replace 320 feet of corr Derby Glen subdivision. Included is reg several homes in the 6300 block of Canter	rading approximately 800		•
STATUS	Drainage work will typically be scheduled in late spring of 2017.	d for the drier, summer mo	nths. This worl	k is expected to be complete

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018			-	Proposed FY 2022	
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

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

PROJECT	Subdivision Drainage	Account # 110-43	150-89440
PROGRAM	Storm Drainage	<b>RESPONSIBLE DEPARTMENT</b>	Public Works
DESCRIPTION		funding in the Public Works Department ainage problems as identified by complaints	0
STATUS	In order to minimize property of summer months.	damage and clean up/restoration efforts, this	work is typically done in the drier,

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	-	Proposed FY 2022	Total FY 2017-2022
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 G O Bond Proceeds	50	50	50	50	50	50	50	300
TOTAL FUNDS	50	50	50	50	50	50	50	300

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

**PARKS and RECREATION**
# PARKS AND RECREATION FISCAL YEARS 2017-2022



### City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017 - 2022 Parks and Recreation Program - Summary (000's)

<u>Projects</u>	Projected <u>2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years <u>2017-22</u>
Concord Park	-	20	-	-	-	-	-	20
Crockett Park	165	85	30	30	30	30	30	235
Deerwood Arboretum	-	15	-	-	-	-	-	15
Flagpole & Wikle Parks	1,955	40	-	-	-	-	-	40
Granny White Park	30	50	30	30	30	30	30	200
Marcella Vivrette Smith Park	250	2,670	200	250	2,060	-	-	5,180
Maryland Way Park	-	-	-	150	-	-	-	150
Owl Creek Park	-	60	25	-	-	-	-	85
River Park	40	-	25	-	-	-	-	25
Tower Park	15	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950
Source of Funds								
Capital Projects Fund	2,220	1,180	-	-	-	-	-	1,180
General Fund	-	-	200	400	60	-	-	660
General Fund (Unreserved Balance)	-	1,500	-	_	_	-	-	1,500
G O Bond Proceeds	-	-	-	_	2,000	-	-	2,000
Facilities Maintenance Division	225	185	110	60	60	60	60	535
Private Sources	10	75	-	-	-	-	-	75
Inter-Governmental Sources	-	-	-	-	-	-	-	
Water and Sewer Fund	-	-	-	-	-	-	-	-
Grand Total	2,455	2,940	310	460	2,120	60	60	5,950

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Concord Park	Account #	311-44400-3007
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	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 include adding solar lighting to the trail area in front of the library subject to the City completing a rezoning process to remove the special restriction prohibiting lighting of the trail. No additional improvements are currently scheduled for FY 2018 or beyond.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION	11 2010	11 2017	11 2010	112017	11 2020	11 2021	11 2022	11201/-2022
Engineering		*****		***************				
Fields, Courts etc.								
Buildings, Facilities, etc.		20						20
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	-	20	-	-	-	-	-	20
SOURCE OF FUNDS								
Capital Projects Fund		20						20
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	20	-	-	-	-	-	20

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, nightime use of this trail segment.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S): (Lights will be solar powered so no electrical cost) 0

**OFFSETTING REVENUE:** 

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Crockett Park Parks and Recreation			Account #			311-44400-3001		
PROGRAM				RESPONSIBLE	E DEPARTME	NT 1	Parks and Recreation		
DESCRIPTION	baseball, socco outdoor amph	ensive park. The park has se trails, the Eddy Arnold I Springs House and other ndoor Soccer Arena.							
STATUS	FY 2016 proj replacement s replacement a energy efficier cleaning of th (\$10,000), rep allocated in F facilities are m	occer goals, a t 4-plex #2, a nt T-8 lights ne ampitheat laement of gu Y 2018 for du	a new water and additiona on remainin er roof (\$25, utters at the agout replace	line for the al recycling c g facilities (\$ 000), replace tennis center ment (\$30,00	shelter restre ontainers. FY 510,000), relate ement of the c, and concret	oom, shelter 7 2017 fundin mping sports insulation a te step repai	restroom 1 ng includes field light t the main rs (\$10,000	re-roof, gutter conversion to ing (\$30,000), itenance shop ). Funds are	
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total	
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022	
EXPENDITURE ALLOCATION	11 2010	112017	FT 2010	11 2017	F I 2020	11 2021	I I 2022	FT 2017-2022	
Fields, Courts etc.							****		
Buildings, Facilities, etc.	150	85	30	30	30	30	30	235	
Furniture/Equipment	15	03	50		50	50	50	233	
Landscaping/Trees	13								
Utilities									
TOTAL EXPENDITURES	165	85	30	30	30	30	30	235	
SOURCE OF FUNDS							5.0	200	
Capital Projects Fund	15								
General Fund	10								
General Fund (Unreserved Balance)									
G O Bond Proceeds									
Facilities Maintenance Division	150	85	30	30	30	30	30	235	
	100						23	203	
Private Sources									
Private Sources Inter-Governmental Sources									
Private Sources Inter-Governmental Sources Water and Sewer Fund									

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 Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

1

**OFFSETTING REVENUE:** 

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Deerwood Arboretum	Account #	311-44400-3008
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation
DESCRIPTION	1 0 1 1	riodic improvements and upgrades to the C attractive and accessible to potential users.	City's primary "tree" park to
STATUS	01	for miscellaneous improvements to Deer ment of the split rail fence and painting of tl	

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018		Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION		-						
Engineering								
Fields, Courts etc.								
Buildings, Facilities, etc.		15						15
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	-	15	-	-	-	-	-	15
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
<b>Facilities Maintenance Division</b>		15						15
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	15	-	-	-	-	-	15

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

**PROGRAM AND FACILITY COSTS:** 

Personnel Services Operating Expenditures Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

**OFFSETTING REVENUE:** 

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Flagpole & Wikle Parks	Account #	311-44400-3013
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation
DESCRIPTION	of the approval for Phase 2 of railroad on the west and I-65 Flagpole Park, the southern development, will be used for	levelopment of a 24 acre park dedicated to f the Mallory Park development. The land on the east, and south of Wikle Rd west and a tract with vehicle access through the f active recreation purposes including unli- cilities. Wikle Park is the northern tract a ve use by nearby residents.	l is located between the CSX nd General McArthur Drive. Mallory Park commercial ghted athletic practice fields
STATUS	along with various offsite pe originally expected to be funde undesignated General Fund f	ements began in 2015 and will be compl edestrian connections from adjoining ne ed by a 2016 bond issue, will instead funde fund balance and a proposed \$300,000 F s to the Capital Projects Fund. FY 2017 fu n maintaining this new park.	ighborhoods. Construction, d by a \$1,500,000 transfer of Y 2016 year-end transfer of

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	30							
Buildings, Facilities, etc.	1,800							
Off-Site Improvements	125							
Equipment		40						40
TOTAL EXPENDITURES	1,955	40	-	_	-	-	_	40
SOURCE OF FUNDS								
Capital Projects Fund	1,955	40						40
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division								
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	1,955	40	-	-	-	-	-	40

Development of a park in this area of the City will provide a convenient passive park for nearby residents to use, additional practice fields to better meet the growing demand from youth sports, and fulfill an objective in the Brentwood 2020 Plan to have a neighborhood park in the southwest area of the City.

LOCATION MAP	PROGRAM AND FACILITY COSTS:
	Personnel Services20Operating Expenditures20Debt Service98
	ANNUAL OPERATING BUDGET IMPACT (000'S): 118 (When park area is fully developed and operational) OFFSETTING REVENUE:

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Granny White Park	Account #	311-44400-3003
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation
DESCRIPTION	recreational program needs o	xt to Brentwood Middle and High Schools f adults and youth. It includes 3 ball fields aved walking path, green space, and suppo	s, playground, picnic pavilion,
STATUS	replacement, painting the fro funding includes repairs and	35,000 for basketball court resurfacing, ont gate and tennis court fencing, and sid I painting of the pavilion ceiling (\$10,00 ment of two gazebos (\$30,000).	ewalk replacement. FY 2017

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION	112010	112017	112010	112012	112020	112021	112022	11201/2022
Fields, Courts etc.								
Buildings, Facilities, etc.	30	50	30	30	30	30	30	200
Furniture/Equipment								
Landscaping/Trees								
TOTAL EXPENDITURES	30	50	30	30	30	30	30	200
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
<b>Facilities Maintenance Division</b>	30	50	30	30	30	30	30	200
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	30	50	30	30	30	30	30	200

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:

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Marcella Vivrette Smith Park	Account #	311-44400-3015
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation
DESCRIPTION	historic outbuildings. Proposed i home, unpaved hiking trails, a renovation of the Ravenswood h	pastures, wooded hillsides, the historic Ra improvements include unlighted multi-pu paved multi-use trail connecting to the ouse for public use, picnic shelters, and its on the 78 acres in the rear of the prop	rpose fields near the historic City's existing trail network, a possible mountain bike trail
STATUS	engineering/design work for Phase of the kitchen building. FY 2017 of the kitchen building (\$165,00 extension of the loop road and do bathroom facility, and a picnic sh Funding in 2018 is programmed FY 2019 funding is programmed f work on Phase 3 improvements. I million from unrestricted General FY 2017 transfer of \$750,000 f	videning of the Ravenswood driveway to e 2 improvements, replacement of the Rav funding includes mansion roof replaceme 00). Phase 2 improvements in FY 2017 evelopment of two multi-purpose fields wi helter funded by contributions from Citize for renovation/replacement of the barn us for stabilization work on the two slave cabi Funding for construction of Phase 2 is con I Fund reserves to the Capital Projects Fun- from the Adequate Facilities Tax Fund the earliest, contingent upon a bond issue of	enswood roof, and stabilization nt (\$150,000) and stabilization (\$2.325 million) will include th parking, a playground and ens for Brentwood Greenspace. Seed by Park maintenance staff. ns as well as initial engineering tingent upon a transfer of \$1.5 nd at the end of FY 2016 and a . Phase 3 improvements are

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Planning/Engineering	145	30		100	60			190
Park Land Acquisition								
Construction/Development	105	2,325	200		2,000			4,525
Historic Structure Renovation		315		150				465
TOTAL EXPENDITURES	250	2,670	200	250	2,060	-	-	5,180
SOURCE OF FUNDS								
Capital Projects Fund	250	1,095						1,095
General Fund			200	250	60			510
General Fund (Unreserved Balance)		1,500						1,500
G O Bond Proceeds					2,000			2,000
Facilities Maintenance Division								
Private Sources		75						75
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	250	2,670	200	250	2,060	-	-	5,180

This park land acquisition allows the City to significantly increase the amount of quality, permanent open space in the community in a location that is directly accessible from an already improved arterial road and by the City's bikeway network. The land adds a new feature to the City's comprehensive park system by preserving a significant amount of forested wildlife habitat in its natural state, with hiking trails for outdoor enthusiasts. This property is large enough to allow for development of additional multipurpose fields to meet the increasing demand from soccer, lacrosse, rugby, etc. and permanent preservation of the historically significant and structurally sound home on the property and enable future use by the City.

#### **PROGRAM AND FACILITY COSTS:**

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

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Maryland Way Park	Account #	311-44400-3011
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation
DESCRIPTION	1 0 1	inor improvements to this 7 acre urban gr section of the Maryland Farms Office Center	1 0

# STATUSFunding is programmed in FY 2019 for potential improvements to the eastern edge of this park to<br/>provide an appropriate pedestrian gateway connection to the Hill Center redevelopment project. The<br/>exact nature and scope of these improvements will be determined in the future based on the final design<br/>of that portion of the Hill Center site adjacent to the park.

PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
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

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):

**OFFSETTING REVENUE:** 

1

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Owl Creek Park			Account #		3	311-44400-30	)06
PROGRAM	Parks and Recre	ation	R	RESPONSIBLE DEPARTMENT		NT 1	Parks and Recreation	
DESCRIPTION	The developn Improvements bikeway/walky fencing and lat	s included op ways with a	en play area	s, picnic shel	lter, playgrou	nd, outdoor	· basketbal	l court, paved
STATUS	Funding for F Road frontage project is not replacement o efficient T-8 lig	e and an entr expected to f the boardy	ance feature be complete valk sections	These func until fall of of the multi	ls will be car 2016. Other	ried over to r FY 2017 f	FY 2017 s funding inc	since the road cludes phased
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022
EXPENDITURE ALLOCATION								
Planning/Engineering								
Buildings, Facilities, etc.		35	25					60
Furniture/Equipment								
Landscaping/Trees		25						25
TOTAL EXPENDITURES	-	60	25	-	-	-	-	85
SOURCE OF FUNDS								
Capital Projects Fund		25						25
			*****			~~~~~~~	~~~~~	

Capital Projects Fund		25						25
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division		35	25					60
Private Sources								
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	-	60	25	-	-	-	-	85

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:** 

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	River Park			Account #			311-44400-3002		
PROGRAM	Parks and Recreation RESPONSIB			RESPONSIBLE	C DEPARTMEN	NT :	Parks and Recreation		
DESCRIPTION	This project provides for extraordinary repairs and improvements to fa heavily used park located along the Little Harpeth River. The primary southeast corner of Concord Road and Knox Valley Road.						-	1 0	
STATUS	FY 2016 fund basketball cou for playground	ırt resurfacir				• • •	-		
PROJECT BUDGET	Projected	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Total	
(000'S)	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2017-2022	
EXPENDITURE ALLOCATION									
Buildings, Facilities, etc.	40		10					10	
Furniture/Equipment			15					15	
Landscaping/Trees									
TOTAL EXPENDITURES	40		25		_	_	_	25	
SOURCE OF FUNDS									
Capital Projects Fund	***	********	*****						
General Fund									
General Fund (Unreserved Balance)									
G O Bond Proceeds									
Facilities Maintenance Division	40		25					25	
Private Sources									
Inter-Governmental Sources									
Water and Sewer Fund									
TOTAL FUNDS	40	-	25	-	-	-	-	25	

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:

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Tower Park	Account #	311-44400-3004						
PROGRAM	Parks and Recreation	<b>RESPONSIBLE DEPARTMENT</b>	Parks and Recreation						
DESCRIPTION	Tower. The park has 3 multi- trails that connect the park t	This project provides for improvements to the 47 acre park located immediately north of the WSM Radi Tower. The park has 3 multi-purpose fields with irrigation and lighting, plus a restroom facility and bik trails that connect the park to the adjoining developments and neighborhoods. This centrally located park is also the location of the City's Nutro dog park.							
STATUS	community. Funding in FY	k was completed in late FY 2011 and h 2016 included dog play stations/equipmen ther improvements are anticipated within th	it in the dog park funded via						

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	-		-	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Fields, Courts etc.								
Buildings, Facilities, etc.	5							
Furniture/Equipment	10							
Landscaping/Trees								
TOTAL EXPENDITURES	15	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Capital Projects Fund								
General Fund								
General Fund (Unreserved Balance)								
G O Bond Proceeds								
Facilities Maintenance Division	5							
Private Sources	10							
Inter-Governmental Sources								
Water and Sewer Fund								
TOTAL FUNDS	15	-	-	-	-	-	-	-

The park is located in the civic center area of Brentwood and provides lighted practice fields to serve organized athletic groups in the community. The addition of a dog park at this location adds another amenity to the park system at a site that is conveniently located but with no adverse impact on surrounding property owners. Miscellaneous maintenance repairs will be needed in the future to keep the park attractive and safe.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

0

**OFFSETTING REVENUE:** 

# **UTILITIES**

# UTILITIES FISCAL YEARS 2017-2022



# City of Brentwood, Tennessee Capital Improvements Program Fiscal Year 2017-2022 Water and Sewer Program - Summary (000's)

<u>Projects</u>	Projected <u>FY 2016</u>	FY <u>2017</u>	FY <u>2018</u>	FY <u>2019</u>	FY <u>2020</u>	FY <u>2021</u>	FY <u>2022</u>	Total 6 Years 2017-2022
Meter Reading Program Upgrade	225	1,000	710	-	-	-	-	1,710
Miscellaneous Sewer Service Additions	_	45	45	105	405	45	45	690
Miscellaneous Sewer System Improvements	_	135	325	160	110	110	110	950
Miscellaneous Water System Improvements	-	110	110	110	110	110	110	660
Sewer System Model	15	-	-	-	-	-	-	-
Sewer Rehabilitation Program	1,090	1,950	1,520	1,520	575	575	575	6,715
Sewer System Capacity Improvements	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Water Line Replacement Program	827	45	295	295	295	295	295	1,520
Water System Capacity Improvements	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665
Source of Funds								
Water & Sewer Fund	2,157	4,650	5,850	5,735	4,970	2,330	2,330	25,865
Private Sources	-	5	5	5	75	5	5	100
Water & Sewer Bond/Note Proceeds	1,006	-	-	-	-	2,350	2,350	4,700
Grand Total	3,163	4,655	5,855	5,740	5,045	4,685	4,685	30,665

#### CAPITAL IMPROVEMENTS PROGRAM

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 In FY 2016, department crews upgraded approximately 500 meter sites totaling approximately 1,725 customer sites which are now remotely read from the billing office. Work in FY 2016 will include installation of the third reading site at Chenoweth water tank. Once the Chenoweth site is installed, tested and commissioned, a contract to provide for upgrades to additional customer meter sites will be issued to include the remainder of customer sites; approximately 11,000 in total.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering								
Construction	225	1,000	710					1,710
TOTAL EXPENDITURES	225	1,000	710	-	-	-	-	1,710
SOURCE OF FUNDS								
Water & Sewer Fund	225	1,000	710					1,710
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	225	1,000	710	-	-	-	-	1,710

The current reading system is aging, labor intensive and replacment 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 comsumption, offset future labor costs and reduce operational cost such as fuel and vehicle expenses.

#### PROGRAM AND FACILITY COSTS (000's):

Personnel Services Operating Expenditures (System will result in operational savings due to reduced water loss) Debt Service

(50)

ANNUAL OPERATING BUDGET IMPACT (000'S):

(50)

#### **OFFSETTING REVENUE:**

DESCRIPTION

#### CAPITAL IMPROVEMENTS PROGRAM

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

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 No requests for connections were made in FY 2016 and none have been identified for FY 2017. However, the next planned large scale project is associated with the Franklin Rd. widening project in 2019 and would include about 20 homes located in that area that are currently served by septic system. The extension of sewer in coordination with the planned Franklin Road widening project is proposed if there is sufficient support among residents, according to 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 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION	112010		112010		112020	112011	112022	11201/2022
Engineering	-	5	5	65	5	5	5	90
Construction	-	40	40	40	400	40	40	600
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	45	45	105	405	45	45	690
SOURCE OF FUNDS								
Water & Sewer Fund	-	40	40	100	330	40	40	590
Private Sources		5	5	5	75	5	5	100
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	45	45	105	405	45	45	690

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 Debt Service	5
ANNUAL OPERATING BUDGET IMPACT (000'S):	5
OFFSETTING REVENUE: (Each home will pay a \$5,000 tap fee)	60
(Each nome win pay a 55,000 tap fee)	

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Miscellaneous Sewer System Improvements	Account #	412-16700-8039
PROGRAM	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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.

STATUSAnnual funding is programmed to handle projects that may arise each year. Funds are programmed in FY 2017 to<br/>complete a condition assessment of the Moore's lane sewer force main which is located on the south side of Moore's<br/>Lane between S. Carothers and the entrance to the Nashville Golf Club.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	-	35	75	10	10	10	10	150
	-							
Construction	-	100	250	150	100	100	100	800
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	135	325	160	110	110	110	950
SOURCE OF FUNDS								
Water & Sewer Fund	-	135	325	160	110	110	110	950
Private Sources								
Water & Sewer Bond/Note Proceeds								
water & Sewer Donu/Note Proceeds								
TOTAL FUNDS	-	135	325	160	110	110	110	950

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

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

**OFFSETTING REVENUE:** 

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Miscellaneous Water System Improvements	Account #	412-16700-8040
PROGRAM	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	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 small projects that may arise each year. At this point, no specific projects have been identified for FY 2017.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	-	10	10	10	10	10	10	60
Construction	-	100	100	100	100	100	100	600
Property/Easement Acquisition								
TOTAL EXPENDITURES	-	110	110	110	110	110	110	660
SOURCE OF FUNDS								
Water & Sewer Fund	-	110	110	110	110	110	110	660
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	110	110	110	110	110	110	660

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):

**OFFSETTING REVENUE:** 

0

#### CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Sewer System Model	Account #	412-16700-8042
PROGRAM	Utilities	RESPONSIBLE DEPARTMENT	Water Services

#### DESCRIPTION

This project provides for the development of a computer model to better identify line capacity and sewer flows through the various trunk & collector lines in the sanitary sewer system.

STATUSFY 2016 included funding to wrap up the sewer system hydraulic computer model which includes development and<br/>calibration. The sewer system model is a requirement of the department's CMOM (Capacity Management, Operations<br/>and Maintenence) program. Now developed, the model will be used annualy to provide for enhanced planning and<br/>aiding system operations.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	15							
Construction								
Property/Easement Acquisition								
TOTAL EXPENDITURES	15	-	-	-	-	-	-	-
SOURCE OF FUNDS								
Water & Sewer Fund	15							
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	15	-	-	-	-	-	-	-

Development and continuous updating of a computerized model of the City's sewer system is a requirement of TDEC, via the City's CMOM program and is a vital tool for effective, long term planning and management of the system. The model will provide staff with a much more accurate assessment of individual line capabilities and potential problems for targeted, cost effective maintenance and improvement projects. The model will also allow the department to more accurately predict the impact of proposed new development to the sewer system at various locations under consideration.

#### **PROGRAM AND FACILITY COSTS:**

Personnel Services Operating Expenditures (annual updates) Debt Service

ANNUAL OPERATING BUDGET IMPACT (000'S):

#### **OFFSETTING REVENUE:**

10

10

<b>CITY OF BRENTWOOD,</b>	TENNESSEE
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CAPITAL IMPROVEMENTS PROGRAM

PROJECT	PROJECT Sewer Rehabilitation Program		412-16700-8023
PROGRAM	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	Water Services
DESCRIPTION	repair of the City's aging sewer inf the City, along with Metro Nashvi	oject which began in 2006, targets flow mo rastructure system serving the Little Harpeth lle who is a party to the Order since the tw rizing Metro and the City's progress and con idations for future compliance.	n River sub-basin. Per the State Order, yo have inter-connecting systems, were
STATUS	through FY 2019 on continued se during this period will include cont line segments, as determined by the intrusion, and continued evaluation	report approved by TDEC, the City is com ewer system rehabilitation/upgrade projects inued targeting of mostly sewer laterals (ser City's consulting engineer to be the most lik of system storage options. Funding progr efforts to continue to improve the operational	. Specific rehabilitation requirements vice lines) and manholes, possible main ely source of ground and surface water ammed in FY 2020 and beyond is for

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION						-		
Engineering/Inspection	220	320	270	270	75	75	75	1,085
Construction	870	1,630	1,250	1,250	500	500	500	5,630
Land Acquisition	0							
TOTAL EXPENDITURES	1,090	1,950	1,520	1,520	575	575	575	6,715
SOURCE OF FUNDS								
Water & Sewer Fund	1,090	1,950	1,520	1,520	575	575	575	6,715
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	1,090	1,950	1,520	1,520	575	575	575	6,715

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

#### CAPITAL IMPROVEMENTS PROGRAM

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 increase system capacity to meet the future growht demands of Brentwood's customers. Projects are to be identified as a result of the sewer system master plan being completed in FY 2016. Improvements are to include system sub basin projects and system wide conveyance projects.

#### STATUS

There were no planned projects identified for FY 2016. Beginning in FY 2017, funds are programmed in anticipation of initiating projects recommended from the Master Plan. Funding for improvements will be provided by sewer tap fees paid by new development.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	-	150	150	150	150	150	150	900
Construction	-	1,000	1,000	1,000	1,000	1,000	1,000	6,000
	-							
Property/Easement Acquisition		50	50	50	50	50	50	300
TOTAL EXPENDITURES	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
SOURCE OF FUNDS								
Water & Sewer Fund	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	-	1,200	1,200	1,200	1,200	1,200	1,200	7,200

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 hyraulic 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:**

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Water System Annual Pipe Replacement Program	n Account #	412-16700-8053	
PROGRAM	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	Water Services	
DESCRIPTION	This proactive program initiated in FY 201.	3 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 completed in FY 2016 included replacement of approximately 8,300 feet of 6 inch plastic pipe with new ductile iron pipe in the Stonehenge subdivision. This completes replacement of all lines in the Stonehenge subdivision (sections accessed from Franklin Rd.). Funding is provided in future years for projects identified in the asset management program.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	62	35	35	35	35	35	35	210
Construction	765	0	250	250	250	250	250	1,250
Property/Easement Acquisition	-	10	10	10	10	10	10	60
TOTAL EXPENDITURES	827	45	295	295	295	295	295	1,520
SOURCE OF FUNDS								
Water & Sewer Fund	827	45	295	295	295	295	295	1,520
Private Sources								
Water & Sewer Bond/Note Proceeds								
TOTAL FUNDS	827	45	295	295	295	295	295	1,520

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:** 

CAPITAL IMPROVEMENTS PROGRAM

PROJECT	Water System Capacity Improvements	Account #	412-16700-8036
PROGRAM	Utilities	<b>RESPONSIBLE DEPARTMENT</b>	Water Services
DESCRIPTION	demands of Brentwood's customers. P	em improvements that are needed to increa rojects identified in the water capacity Il facilitate more water through the system a	master plan include internal

upsizing projects that will allow for increased water supply directly from our wholesale water suppliers.

STATUSIn fiscal year 2016, the department completed construction of the new Johnson Chapel water pump station located at<br/>Murray Lane and Johnson Chapel Rd. Additional projects are planned in future years as determined by the water<br/>system master plan which is being finalized this spring. Once finalized, future projects will be prioritized with<br/>recommendations and detailed funding outlined in future years. Funding is expected to be a combination of water<br/>tap fees from new development and water/sewer bond proceeds.

PROJECT BUDGET (000'S)	Projected FY 2016	Proposed FY 2017	Proposed FY 2018	Proposed FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Total FY 2017-2022
EXPENDITURE ALLOCATION								
Engineering	50	50	150	300	300	300	300	1,400
Construction	956	120	1,500	2,000	2,000	2,000	2,000	9,620
Property/Easement Acquisition				50	50	50	50	200
TOTAL EXPENDITURES	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220
SOURCE OF FUNDS								
Water & Sewer Fund		170	1,650	2,350	2,350			6,520
Private Sources								
Water & Sewer Bond/Note Proceeds	1,006					2,350	2,350	4,700
TOTAL FUNDS	1,006	170	1,650	2,350	2,350	2,350	2,350	11,220

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
Debt Service (CY 2020 Bond Issue)	305
ANNUAL OPERATING BUDGET IMPACT (000'S):	305

#### **OFFSETTING REVENUE:**

(Increase water sales from available water during the summer)

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.
СМОМ	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.

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.

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.

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.