



2019 - 2023

CAPITAL IMPROVEMENTS PROGRAM

Adopted by Ordinance No. 47-18



EVERYTHING GROWS HERE.

**(1) Capital Budget
Process**

**2019-2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
ANNUAL CAPITAL IMPROVEMENTS PROGRAM BUDGET PROCESS**

The City of Dublin has implemented an annual schedule for the preparation and adoption of the Five-Year Capital Improvements Program (CIP) and the Annual Operating Budget, which includes the annual CIP budget. The following timeframes are key elements in the annual budget calendar for approval of the CIP 2019-2023:

Target Timeframe	Element
First Quarter	City Council goal setting session
First Week of April	CIP kick-off memo distributed to City Staff
April 23	City Administration's debt presentation to City Council
First Week of May	Staff submittal deadline for CIP project proposal forms to City Manager and Director of Finance
End of June	Inventory of all proposed projects submitted to City Council as "Information Only"
Beginning of August	Completion of the Administration's proposed Five-Year CIP
August 13	First reading of Ordinance to adopt the 2019-2023 CIP
August 15, August 20, August 29, September 10, October 8	City Council workshops to review the proposed CIP
October 22	Second reading of Ordinance to adopt the 2019-2023 CIP
End of October	Completion of the Administration's proposed Annual Operating Budget
November	City Council review of proposed Annual Operating Budget
By December 31	Adoption of Annual Operating Budget and related Appropriations Ordinance by City Council

The five-Year CIP and the Annual Operating Budget are two critical documents prepared annually. The relationship between these two documents is summarized in the following points:

Five-Year CIP

- Represents a long-term financial plan, including funding sources.
- Establishes priorities and serves as a planning document or blueprint for the City's investment in capital infrastructure.
- Provides a breakdown of major project costs and phasing.
- Does not appropriate money. The Operating Budget and the annual appropriation ordinance are the documents which authorize the actual funding authority for the capital projects.

Operating Budget

- Appropriates money to implement the first year of the Five-Year CIP.
- Appropriates money to implement a "phase of a major, multi-year project."
- Appropriates money for capital maintenance expenditures, including those of a continuing nature (i.e. fleet and equipment replacement, computers, etc.)

RECORD OF ORDINANCES

Dayton Legal Blank, Inc.

Form No. 30043

Ordinance No. 47-18

Passed , 20

AN ORDINANCE ADOPTING THE 2019-2023 FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM

WHEREAS, Section 8.03(a) of the Revised Charter requires the City Manager to prepare and submit to City Council a five-year capital plan in accordance with the annual budget calendar as authorized by City Council; and

WHEREAS, City Council has received and reviewed the Five-Year Capital Improvements Program (CIP) for the years 2019-2023; and

WHEREAS, the CIP represents a long-term financial plan, which establishes priorities, identifies project costs and phasing, identifies funding sources, and serves as a planning document for capital improvements; and

WHEREAS, the Administration has incorporated in the attached CIP all modifications as requested by City Council as a result of the CIP budget workshops.

NOW, THEREFORE, BE IT ORDAINED by the Council of the City of Dublin, State of Ohio, 17 elected members concurring, that:

Section 1. The 2019-2023 Five-Year Capital Improvements Program attached as an Exhibit be, and hereby is, approved.

Section 2. This Ordinance shall take effect and be in force on the earliest date permitted by law.

Passed this 22nd day of October, 2018



Mayor - Presiding Officer

ATTEST:



Clerk of Council

(2) Financial Guidelines

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
FINANCIAL GUIDELINES

The Five-Year Capital Improvements Program (CIP) establishes the City's blueprint for investment in its capital infrastructure. This document is used as a tool to help ensure the City's long and short-term capital investments are made in the context of careful consideration of the City's needs as well as the resources available to fund all projects.

The financial guidelines used in the preparation of the CIP will provide assurance the City can meet, in a full and timely manner, both our debt service obligations and all other obligations competing for the available resources. It is our objective to complete as many needed capital improvement projects as financially possible while maintaining flexibility and the ability to adapt to changes as they occur.

There are several key guidelines that the Administration utilized in determining the City's fiscal capacity to complete capital projects over the next five years. These are summarized as follows:

- The five-year plan will be updated annually in accordance with the annual budget calendar.
- 25 percent of the City's two percent income tax revenue shall be made available to fund capital improvements. This allocation is in accordance with Ordinance No. 17-87 and the ballot language approved by the voters in November 1987.
- Of the 25 percent of the total income tax revenues which are utilized for capital improvements, 60 percent of that amount will be allocated to fund long-term debt, and 40 percent to fund projects and capital expenses on a cash basis. This allocation is in accordance with Ordinance No. 31-16 (the City's adopted debt policy). The reasons for this guideline are:
 - a) It is important to stress that funding projects with long-term debt obligates the use of public funds for the next 20 years in most cases. The more long-term debt which is incurred now significantly reduces the options available to future City Councils to fund needed projects.
 - b) The City has determined that paying cash for projects where financially possible (pay-as-you-go financing) will increase our flexibility in the future. In utilizing pay-as-you-go financing, revenue projections and estimated fund balances will be reviewed and evaluated to assure that sufficient reserves are maintained.
 - c) It is not economical to issue debt for some projects.
 - d) The estimated life of some projects does not meet the criteria to issue long-term debt.
- Our philosophy for projecting income tax revenues is to be conservative. The City's largest revenue source for operations is income tax revenue. This source comprises over 90% of the City's General Fund operating revenues. Therefore, it is one of the City's key economic indicators that is reviewed when determining the level of growth for the upcoming year.

FINANCIAL GUIDELINES (continued)

In the 2018 Operating Budget, staff projected \$86,000,000 in revenue from the local income tax, with 75% or \$64,500,000 programmed in the General Fund, and 25% or \$21,500,000 programmed in the Capital Improvements Tax Fund. This estimate was based on a 1.7% decrease over the 2017 actual income tax revenue. However, year-to-date receipts through September 30, 2018 reflected a .2% decrease over the same time period in 2017. This better-than-expected reduction is due to growth in the City's existing withholding base, which has reflected a 1.2% growth from 3rd quarter year-to-date 2017 versus 2018. The Administration has revised its original projected income tax revenue for 2018 to reflect a 1.2% decrease over the 2017 actual receipts.

While the year-to-date income tax revenue has exceeded the City's expectations, the City continues to be cognizant of the volatility in this revenue stream. Over the past few years, several large businesses have left the City – Nationwide Insurance, JP Morgan Chase, and Verizon. The income tax revenue projection for 2018 also takes into consideration the continued phase-out of revenue from Nationwide Insurance, who is expected to fully vacate the City by the 4th quarter of 2018.

The 2019 estimated income tax projection reflects a 1.2% reduction over the revised 2018 projected revenue. In estimating 2019 income tax revenue, staff has taken into consideration the final movement of employees from Nationwide Insurance, as well as a continued reduction in revenue from Wendy's International. Additionally, we have applied a 1% reduction across the board in our existing tax base. As a result, 2019 estimates reflects \$86,000,000 in income tax revenue.

Estimates for years 2020 through 2023 remain consistent in income tax receipts in each of the years. Income tax revenues are monitored closely and will be revised, if necessary.

In addition to funding projects on a cash basis over the next five years, the purpose of these projections is to determine the amount of long-term debt that can be retired using income tax revenues. To incur substantial long-term debt based upon a less than conservative rate of growth could result in a serious financial strain on the City if those growth projections are not achieved. Issuing long-term debt, in most cases, will result in debt service payments over a 20-year period. Issuing long-term debt based on less than conservative growth estimates would not be a financially sound approach.

- To the degree that the income tax revenue rate of growth exceeds our projections in any given year, the excess revenue should be utilized to fund projects on a cash basis the following year or to reduce the amount of debt on projects identified to be financed with debt proceeds.
- The availability of adequate financial reserves or balances that can be used to address unforeseen contingencies or take advantage of opportunities is a critical element in evaluating financial strength. Another key financial indicator for the City is its' General Fund balance. The City's policy is to maintain a year-end balance equal to or greater than 50% of the General Fund expenditures, including operating transfers. This balance is in accordance with Ordinance No. 32-16.

FINANCIAL GUIDELINES (continued)

- The General Fund balance through October 30, 2018 is \$40,133,365. The level of fund balance is fluctuating as we continue funding major improvements throughout the City. We will continue to make significant advances from the General Fund to various TIF funds for infrastructure improvements throughout the City. This allows the City to take advantage of opportunities as they arise and fund infrastructure improvements before TIF revenues are generated. The expectation is that these advances will be repaid to the General Fund over the 30-year life of each TIF.
- Since a portion of the debt outstanding and future capital improvements are utility (water and sewer) related, the systems' user fees and capacity charges (tap permits) will continue to be evaluated. Water related improvements will be programmed based on the Water Fund's available cash reserves and estimated annual revenues. Every effort will be made to structure the debt service obligations for utility infrastructure improvements in such a manner as to utilize the Sewer Fund and Water Fund available cash reserves and estimated annual revenues to the fullest and thereby reducing or eliminating the dependency on income tax revenues. The goal in the Water and Sewer funds has been to maintain fund balances equal to approximately 25% of the total value of each system.
- In 2018, approximately 80% of the property tax revenue from the City's "inside millage" will be allocated to the Capital Improvements Tax Fund, with approximately 20% allocated to the Parkland Acquisition Fund. The property tax revenue from the City's "inside millage" (1.75 mills) was allocated 100% to the Parkland Acquisition Fund from 2001-2006. From 2007-2009, the City began allocating .95 mills of the total 1.75 mills to the Parkland Acquisition Fund with the remaining .80 mills allocated to the Capital Improvements Tax Fund. As part of the 2010-2014 CIP process, Council approved allocating 1.40 mills to the Capital Improvements Tax Fund and .35 mills to the Parkland Acquisition Fund. City Council has continued to approve, with each year's CIP, the same allocation. This allocation is reviewed during the CIP process each year and can be reallocated if City Council deems it appropriate.
- Pursuant to the City's Debt Policy (Ordinance No. 31-16), the maximum amount of income tax supported debt to be issued is 10 percent less than the estimated maximum amount of debt that can be supported by the income tax revenue allocated as available for annual debt service obligations. This limitation provides an additional buffer in the event that income tax revenues fall short of projections or that an unexpected increase in interest rates occurs.
- As a matter of general policy, the City will do the following in order to be able to fund additional projects needed to serve the citizens of Dublin:
 - a) Pursue federal, state and local assistance in the form of grants, low interest loans, cost-sharing, etc.
 - b) Utilize assessment procedures for projects which have a reasonably well defined group of beneficiaries and which legally lend themselves to this type of financing.
 - c) Look increasingly at ways to obtain revenue through user fees as a means to fund capital projects or as a way to free-up other income tax dollars so that they can be used to fund capital projects.

FINANCIAL GUIDELINES (continued)

- d) Utilize, where appropriate, economic development incentives such as tax increment financing.
- As projects are proposed for funding, the statutory debt limitations will be reviewed to ensure compliance.

The five-year program provides for significant capital programming. The programming of projects needs to be distributed over the five-year period so that as we update our capital program each year, we can evaluate current conditions, including the capital needs, revenue growth, and respond to new priorities.

(3) Revenue Projections

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
REVENUE PROJECTIONS

The most significant funding source for the Five-Year Capital Improvements Program (CIP) is the City's income tax revenue. Projecting income tax revenues for the five-year period is a significant element in determining resources available for capital programming. The Financial Guidelines in Section 2 outline the financial guidelines used in determining the City's fiscal capacity to complete capital projects.

In addition to the income tax revenues, the projects associated with the water and sewer systems will be funded in whole or in part by revenues from those systems (i.e. user charges and tap permit fees).

The following pages provide projections for income tax revenues and projections for the water and sewer system operations. The assumptions used for the projected water and sewer system operations are included. Section 4 reflects the debt financed projects that are also supported by service payments from tax increment financing districts and property tax revenue from "inside millage."

**2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
INCOME TAX REVENUE**

	2017	2018	2019	2020	2021	2022	2023
Income Tax Revenue*	\$ 87,506,869	\$ 86,000,000	\$ 86,000,000	\$ 86,000,000	\$ 86,000,000	\$ 86,000,000	\$ 86,000,000
Revenue for capital projects (25% of income tax revenue)	21,876,717	21,500,000	21,500,000	21,500,000	21,500,000	21,500,000	21,500,000
¹ Revenue available for cash capital projects	8,750,687	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000	8,600,000
² Revenue available for debt financed projects	13,126,030	12,900,000	12,900,000	12,900,000	12,900,000	12,900,000	12,900,000
³ Recommended maximum amount of outstanding debt	\$ 108,640,632	\$ 91,610,878	\$ 5,671,720	\$ 6,751,540	\$ 5,442,874	\$ 5,760,183	\$ 5,549,726

* Income tax revenue reflects an estimated increase/decrease over the previous year as follows:

2018 - Based on a <1.7%> decrease over 2017 actual collections

2019 - 0%

2020 - 0%

2021 - 0%

2022 - 0%

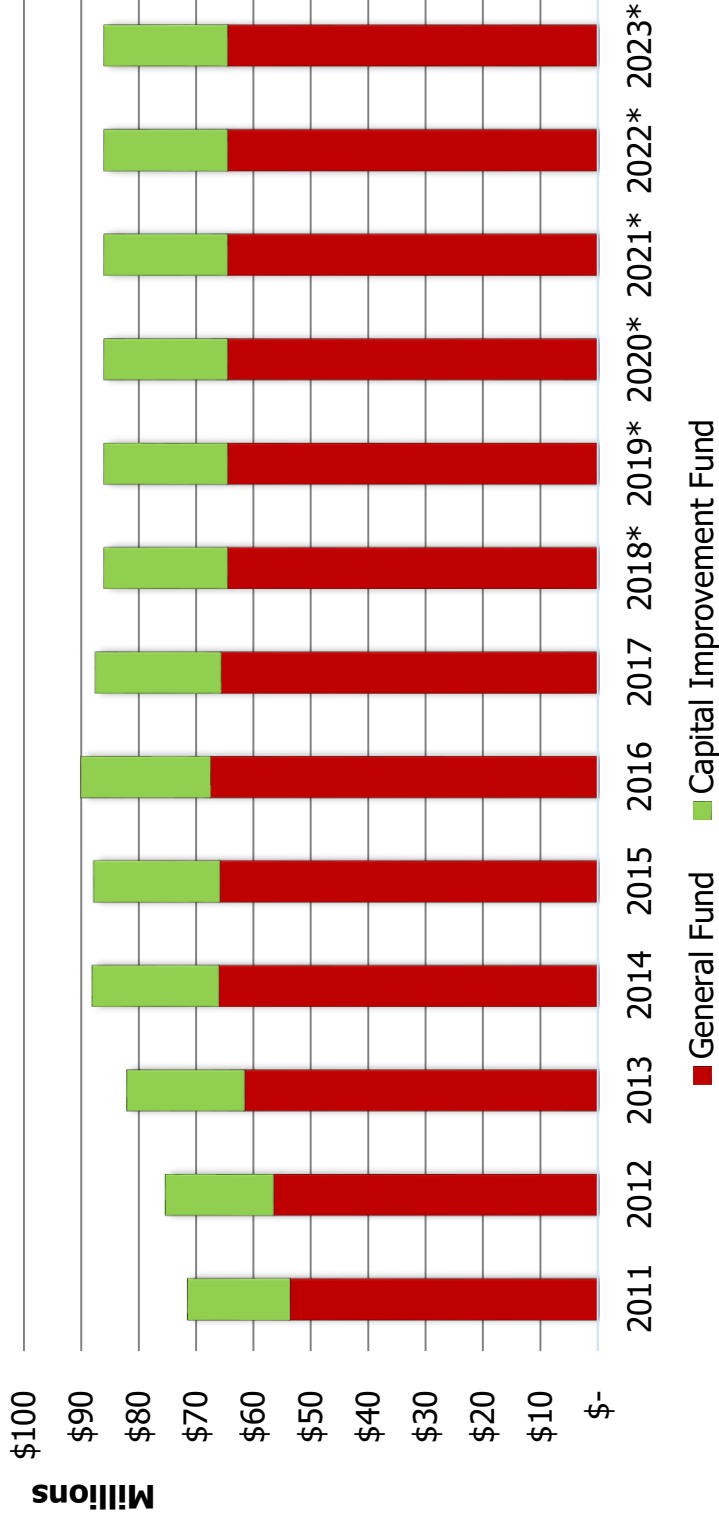
2023 - 0%

¹ 40% of the 25% designated for capital improvements is further designated for cash capital projects pursuant to the City of Dublin Debt Policy

² 60% of the 25% designated for capital improvements is further designated to retire debt issued for capital projects pursuant to the City of Dublin Debt Policy

³ Amount is based on existing and projected income tax supported debt pursuant to the City of Dublin Debt Policy.

2019 – 2023 CIP – Income Tax Revenue



* Denotes estimated revenue



2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
SEWER FUND
STATEMENT OF PROJECTED REVENUE, EXPENSES, AND FUND BALANCE

	2017	2018	2019	2020	2021	2022	2023
Revenues:							
User charges (Surcharge)	\$ 2,063,371	\$ 2,170,000	\$ 2,168,592	\$ 2,187,250	\$ 2,205,908	\$ 2,205,908	\$ 2,205,908
Tap fees (Capacity Charge)	\$ 654,250	\$ 750,000	\$ 335,920	\$ 351,390	\$ 243,100	\$ 243,100	\$ 243,100
Interest	\$ 66,082	\$ 66,082	\$ 66,082	\$ 66,082	\$ 66,082	\$ 66,082	\$ 66,082
Bond Proceeds/Other Proceeds	\$ 166,087	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ 2,949,789	\$ 2,986,082	\$ 2,570,593	\$ 2,604,722	\$ 2,515,090	\$ 2,515,090	\$ 2,515,090
Expenses:							
Salaries/wages	\$ 573,487	\$ 623,710	\$ 648,658	\$ 674,605	\$ 701,589	\$ 729,652	\$ 758,839
Benefits/uniforms	\$ 235,922	\$ 287,029	\$ 298,510	\$ 310,451	\$ 322,869	\$ 335,783	\$ 349,215
Contract services	\$ 412,462	\$ 432,900	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Repairs/maintenance	\$ 2,275	\$ 27,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Other	\$ 8,221	\$ 17,300	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
	\$ 1,232,367	\$ 1,387,939	\$ 1,162,169	\$ 1,200,055	\$ 1,239,458	\$ 1,280,436	\$ 1,323,053
Capital expenditures (cash funded only)	\$ 1,282,854	\$ 2,418,600	\$ 830,000	\$ 305,000	\$ 550,000	\$ 250,000	\$ 550,000
Debt service:							
USWBI	\$ 1,329,638	\$ 671,072	\$ -	\$ -	\$ -	\$ -	\$ -
2009 issue	\$ 152,825	\$ 150,200	\$ 148,625	\$ 150,738	\$ 148,263	\$ 150,513	\$ 152,063
2012 issue	\$ 168,425	\$ 170,750	\$ 168,550	\$ 170,725	\$ 172,200	\$ 168,000	\$ 168,725
2015 issue	\$ 183,269	\$ 184,969	\$ 183,069	\$ 186,169	\$ 184,169	\$ 186,669	\$ 186,419
2017 issue	\$ 17,784	\$ 103,800	\$ 102,800	\$ 100,300	\$ 103,300	\$ 101,100	\$ 100,000
2018 issue	\$ -	\$ -	\$ 78,800	\$ 78,800	\$ 78,800	\$ 78,800	\$ 78,800
2019 issue	\$ -	\$ -	\$ 245,600	\$ 245,600	\$ 245,600	\$ 245,600	\$ 245,600
2020 issue	\$ -	\$ -	\$ -	\$ 353,600	\$ 353,600	\$ 353,600	\$ 353,600
2021 issue	\$ -	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000	\$ 120,000
2022 issue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000
	\$ 1,851,941	\$ 1,280,791	\$ 927,444	\$ 1,285,931	\$ 1,405,931	\$ 1,524,281	\$ 1,525,206
Net cash (required) provided	\$ (1,417,374)	\$ (2,101,249)	\$ (349,020)	\$ (186,266)	\$ (680,299)	\$ (539,628)	\$ (883,171)
Advances-out	\$ (1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Advances-in	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers-out	\$ (1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers-in	\$ 562,888	\$ 610,000	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers In (Capital Fund - extensions)	\$ -	\$ 400,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Transfers-in (General Fund - extensions)	\$ -	\$ 800,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Beginning balance	\$ 5,463,428	\$ 4,608,939	\$ 4,317,690	\$ 4,368,670	\$ 4,582,404	\$ 4,302,105	\$ 4,162,477
Ending balance	\$ 4,608,939	\$ 4,317,690	\$ 4,368,670	\$ 4,582,404	\$ 4,302,105	\$ 4,162,477	\$ 3,679,306

**2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
SEWER FUND ASSUMPTIONS**

Projected User Charges and Capacity Charges (Tap Fees)

Assumptions:

- Revenues based on estimated Equivalent Residential Unit (ERUs) and fees as authorized by Ordinance No. 72-17.
- Capacity charges for all tap sizes were increased 5% effective January 1, 2013 as authorized by Ordinance 64-12.
- The average number of ERUs projected for 2018 reflects a decrease of approximately 75 units over 2017 which was the highest growth year in the past five years. This projection is based on the number of residential building permits issued in 2017 for new units and the new development occurring throughout the City.
- The average number of ERUs projected for 2019 – 2023 is the total of the estimated previous year's average number of ERUs at the beginning of the year and the previous year's estimated ERU growth.
- The estimated ERU growth for 2019 – 2023 ranges from 175 ERUs in 2018 to 185 ERUs per year in 2019 - 2023.
- Project that at 12/31/2023, sewer fund balances will be approximately 2.04% of total system value at 12/31/2017.
- A comprehensive sewer and water rate study will be undertaken by an outside consulting firm specializing in this type of analysis. The study is anticipated to be conducted during the first quarter of 2019. The City's last comprehensive rate study was in the early 1990's.

Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance

Assumptions:

- Revenues for user charges and tap fees are based on the schedule of Projected User Charges and Capacity Charges.
- Debt programmed is for the investment in sewer infrastructure.
- The 2019-2023 CIP includes funding in 2019 for continued extension of sanitary sewer lines to unserved areas throughout the City of Dublin. Funding beyond 2019 is not yet programmed. During the 2019-2023 CIP workshops, City Council seemed willing to consider extending the implementation plan beyond 15 years. A revised implementation plan will be brought forward for City Council's consideration in conjunction with the water/sewer rate study to be completed in the first quarter of 2019. The outcome of the rate study should help influence the schedule of extensions. Funding for the extensions will come from tap fees generated by new users to the system, an annual transfer from the Capital Improvement Tax Fund, and an annual transfer from the General Fund, if necessary.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
SEWER FUND ASSUMPTIONS

Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance
(Continued)

- The 2009 debt service obligation provides funding to retire the debt on the \$2,220,000 in long-term debt for relining sanitary sewer lines and other sanitary sewer improvements.
- The 2015 debt service obligation provides funding to retire the debt on the \$2.5 million in long-term debt for relining sanitary sewer lines and other sanitary sewer improvements.
- The 2017 debt service issue is based on the current plan to issue \$1,380,000 in long-term debt for sanitary sewer improvements and extensions to unserved areas.
- The 2018 debt service issue is based on the current plan to issue \$1,395,000 in long-term debt for sewer lining, manhole rehabilitation, and extensions to unserved areas. (Ordinance 67-18 approved on October 22, 2018).
- The 2019 debt service issue is based on the current plan to issue \$3,070,000 in long-term debt for sanitary sewer improvements and extensions to unserved areas, as well as for the Deer Run sewer upsizing project for Dumfries Court.
- The 2020 debt service issue is based on the current plan to issue \$2,920,000 in long-term debt for sanitary sewer extensions to unserved areas, additional improvements to Deer Run, and relining various sanitary sewer lines.
- The 2021 debt service issue is based on the current plan to issue \$1,500,000 in long-term debt for sanitary sewer extensions to unserved areas and additional improvements to Deer Run.

While the Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance shows debt being issued each year from 2019 – 2021, Staff will evaluate the timing of debt issuances and to the extent possible, incorporate multiple projects in with a single debt issuance in order to minimize issuance costs.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
WATER FUND ASSUMPTIONS

Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance (Continued)

The Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance were prepared through the year 2023. Using the above assumptions, sufficient revenue to maintain a "positive" cash balance will be available through the year 2023, although the projected balance will not meet the goal of 25% of the historical value of the system assets. The rate of growth, the user fees and capacity charges will continue to be evaluated to determine the need to adjust rates in the future.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
WATER FUND
STATEMENT OF PROJECTED REVENUE, EXPENSE, AND FUND BALANCE

	2017	2018	2019	2020	2021	2022	2023
Revenues:							
Surcharge	\$ 612,896	\$ 630,000	\$ 638,121	\$ 642,550	\$ 646,978	\$ 646,978	\$ 646,978
Capacity Charges	\$ 888,252	\$ 300,000	\$ 258,930	\$ 355,320	\$ 207,900	\$ 207,900	\$ 207,900
Interest	\$ 201,239	\$ 175,000	\$ 155,067	\$ 152,124	\$ 150,093	\$ 144,040	\$ 132,907
Fire hydrant permits	\$ 4,375	\$ 2,500	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
	<u>\$ 1,706,762</u>	<u>\$ 1,107,500</u>	<u>\$ 1,053,118</u>	<u>\$ 1,150,994</u>	<u>\$ 1,005,971</u>	<u>\$ 999,918</u>	<u>\$ 988,785</u>
Expenses:							
Salaries/wages	\$ 132,061	\$ 197,460	\$ 205,358	\$ 213,573	\$ 222,116	\$ 231,000	\$ 240,240
Benefits/uniforms	\$ 59,434	\$ 110,769	\$ 115,200	\$ 119,808	\$ 124,600	\$ 129,584	\$ 134,767
Utilities	\$ 143,574	\$ 180,000	\$ 187,200	\$ 194,688	\$ 202,476	\$ 210,575	\$ 218,998
Contract services	\$ 224,616	\$ 572,600	\$ 50,000	\$ 50,000	\$ 50,001	\$ 50,002	\$ 50,003
Hydrant maintenance	\$ 46,606	\$ 50,600	\$ 52,624	\$ 54,729	\$ 56,918	\$ 59,195	\$ 61,563
Other	\$ 6,196	\$ 8,200	\$ 15,000	\$ 15,000	\$ 15,001	\$ 15,002	\$ 15,003
	<u>\$ 612,488</u>	<u>\$ 1,119,629</u>	<u>\$ 625,382</u>	<u>\$ 647,797</u>	<u>\$ 671,111</u>	<u>\$ 695,358</u>	<u>\$ 720,574</u>
Capital expenditures	\$ 1,273,675	\$ 2,624,188	\$ 830,000	\$ 745,000	\$ 510,000	\$ 750,000	\$ 75,000
Debt service:							
2009 issue	\$ 138,337	\$ 140,963	\$ 134,463	\$ 136,850	\$ 134,600	\$ 137,100	\$ 138,950
2012 issue	\$ 158,963	\$ 156,463	\$ 159,413	\$ 156,788	\$ 158,563	\$ 159,613	\$ 160,513
	<u>\$ 297,300</u>	<u>\$ 297,426</u>	<u>\$ 293,876</u>	<u>\$ 293,638</u>	<u>\$ 293,163</u>	<u>\$ 296,713</u>	<u>\$ 299,463</u>
Net cash (required) provided	\$ (476,702)	\$ (2,933,743)	\$ (696,140)	\$ (535,441)	\$ (468,303)	\$ (742,153)	\$ (106,251)
Advances-out	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Advances-in	\$ -	\$ 500,000	\$ 500,000	\$ 400,000	\$ 64,750	\$ -	\$ -
Beginning balance	\$ 13,248,215	\$ 12,771,513	\$ 10,337,771	\$ 10,141,631	\$ 10,006,189	\$ 9,602,636	\$ 8,860,483
Ending balance	<u>\$ 12,771,513</u>	<u>\$ 10,337,771</u>	<u>\$ 10,141,631</u>	<u>\$ 10,006,189</u>	<u>\$ 9,602,636</u>	<u>\$ 8,860,483</u>	<u>\$ 8,754,232</u>

**2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
WATER FUND ASSUMPTIONS**

Projected User Charges and Capacity Charges (Tap Fees)

Assumptions:

- Revenues based on estimated ERUs and fees as authorized by Ordinance No. 75-15.
- Capacity charges for all tap sizes were increased 5% effective January 1, 2013 as authorized by Ordinance 64-12.
- The average number of ERUs projected for 2018 reflects a decrease of approximately 75 units over 2017 which was the highest growth year in the past five years. This projection is based on the number of residential building permits issued in 2017 for new units and the new development occurring throughout the City.
- The average number of ERUs projected for 2019 – 2023 is the total of the estimated previous year's average number of ERUs at the beginning of the year and the previous year's estimated ERU growth.
- The estimated ERU growth for 2019 – 2023 ranges from 175 ERUs in 2018 to 185 ERUs per year in 2019 - 2023.
- Project that at 12/31/2023, fund balances will be 12.36% of total system value at 12/31/2017.
- A comprehensive sewer and water rate study will be undertaken by an outside consulting firm specializing in this type of analysis. The study is anticipated to be conducted during the first quarter of 2019. The City's last comprehensive rate study was in the early 1990's.

Statement of Projected Revenue, Expenses and Changes in Water Fund Cash Balance

Assumptions:

- Revenues for user charges and tap fees based on schedule of Projected User Fees and Projected Capacity Charges.
- Salaries/Wages and Benefits/Uniforms are included for the water hydrant program.
- The 2012 debt service obligation provides funding to retire the debt on the \$2,360,000 in long-term debt issued for the Dublin Road water tower.
- The 2014 debt service obligation provides funding to retire the debt on the \$1,710,000 in long-term debt issued for the Darree Fields water tower.
- Funding has been programmed during the five-year period to paint the Tartan West Tank. Funding for an inspection has been programmed in 2020. Depending on the results of the inspection, it is possible that the re-painting work will be pushed beyond the five-year program period.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
WATER FUND ASSUMPTIONS

Statement of Projected Revenue, Expenses and Changes in Water Fund Cash Balance (Continued)

- Funding has been programmed during the five-year period for the Bright Road 12" water main extension and the Riverside Drive 12" water main extension.
- The 2019-2023 CIP includes funding in 2019 for continued extension of water lines to unserved areas throughout the City of Dublin. Funding beyond 2019 is not yet programmed. During the 2019-2023 CIP workshops, City Council seemed willing to consider extending the implementation plan beyond 15 years. A revised implementation plan will be brought forward for City Council's consideration in conjunction with the water/sewer rate study to be completed in the first quarter of 2019. The outcome of the rate study should help influence the schedule of extensions. Funding for the extensions will come from tap fees generated by new users to the system, an annual transfer from the Capital Improvement Tax Fund, and an annual transfer from the General Fund, if necessary.

The Statement of Projected Revenue, Expenses and Changes in Water Fund Cash Balance were prepared through the year 2023. Using the above assumptions, sufficient revenue will be available, as well as maintaining a sufficient reserve, throughout the life of existing and proposed debt obligations. The rate of growth and the user fees and capacity charges will continue to be evaluated annually.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
MUNICIPAL DEBT

This section provides information on the long-term debt obligations projected to be outstanding at December 31, 2018, the projected long-term income tax supported debt, a calculation of the long-term debt capacity and a recap of the annual debt service obligations.

The Projected Long-Term Debt Schedule reflects that the estimated principal outstanding at the end of each year is within the recommended maximum amount. The Debt Service Payments Due (Income Tax supported debt) schedule reflects that the total actual and estimated debt service obligations each year are within the actual and projected income tax revenue available for debt retirement. The difference between the two, or the "surplus", will be used to "buy down" other capital project costs and issue less debt or be used to fund other capital projects. A schedule of debt service payments that are supported by sources other than income tax revenues is also included.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
LONG-TERM DEBT OBLIGATIONS
Projected Schedule as of December 31, 2018

	Date of Issue	Date of Maturity	Original Amount	O/S Principal	Paid From Income Taxes		Other Sources ¹
					General Fund	Capital Improvement Tax Fund	
<u>Unvoted G.O. Bonds</u>							
Avery-Muirfield Interchange	09/01/99	12/01/19	8,316,788	570,000	-	570,000	-
Rings Road Improvements	12/01/00	12/01/20	3,535,000	531,134	-	-	531,134
Arts Facility Acquisition	12/01/00	12/01/20	1,360,000	201,832	-	-	201,832
Arts Facility Renovation	12/01/00	12/01/20	755,000	112,601	-	-	112,601
Perimeter Drive Extension	12/01/00	12/01/20	3,940,000	592,748	-	-	592,748
Emerald Parkway - Phase 7A	12/01/00	12/01/20	2,020,000	301,685	-	-	301,685
Service Complex	12/01/01	12/01/21	3,675,000	685,728	-	685,728	-
Municipal Pool South (OMB)	07/01/04	01/01/25	2,986,000	1,250,000	-	1,250,000	-
Industrial Pkwy/SR 161 Improvements	11/18/09	12/01/29	9,670,000	5,960,000	-	-	5,960,000
Darree Fields Water Tower	11/18/09	12/01/29	2,015,000	1,235,000	-	-	1,235,000
Sanitary Sewer Lining	11/18/09	12/01/29	2,220,000	1,365,000	-	-	1,365,000
LED Street Lights	10/02/12	12/01/22	2,185,000	990,000	-	990,000	-
Dublin Road Water Tower	10/02/12	12/01/32	2,360,000	1,785,000	-	-	1,785,000
Sanitary Sewer Lining	10/02/12	12/01/32	2,540,000	1,920,000	-	-	1,920,000
Emerald Parkway - Phase 8	12/19/13	12/01/33	5,420,000	5,395,000	-	-	5,395,000
Bridge Street - Land Acquisition	12/19/13	12/01/33	4,435,000	4,410,000	-	-	4,410,000
Emerald Parkway - Phase 8	01/07/14	12/01/19	1,580,000	200,000	-	-	200,000
Bridge Street - Land Acquisition	01/07/14	12/01/19	1,265,000	145,000	-	-	145,000
270/33 Interchange	01/07/14	12/01/23	9,000,000	4,725,000	-	-	4,725,000
Dublin Road/Glick Road Improvements (OPWC)	07/01/14	01/30/26	250,000	187,500	-	-	187,500
Justice Center Improvements	09/30/15	12/01/35	10,600,000	9,505,000	-	9,505,000	-
Sewer Lining & Repairs	09/30/15	12/01/35	2,500,000	2,240,000	-	-	2,240,000
BSD Transportation (Riverside Dr./161/Park)	09/30/15	12/01/35	25,000,000	22,420,000	-	22,420,000	-
BSD Transportation (Bridge Park)	09/30/15	12/01/35	11,100,000	10,255,000	-	-	10,255,000
270/33 Interchange (Construction) (SIB)	02/10/15	02/10/35	10,010,000	7,003,630	-	-	7,003,630
BSD Transportation (John Shields Parkway II)	12/06/16	12/01/36	9,325,000	8,630,000	-	-	8,630,000
Service Center Renovation/Expansion	08/02/17	12/01/37	3,300,000	3,185,000	-	3,185,000	-
Sewer Lining & Repairs; Sewer Extensions	08/02/17	12/01/37	1,380,000	1,330,000	-	-	1,330,000
BSD Transportation (Pedestrian Bridge/N. High St.)	08/02/17	12/01/37	27,200,000	26,245,000	-	26,245,000	-
<i>Historic Dublin Parking Garage/Roadway System</i>	<i>12/18/18</i>	<i>12/01/38</i>	<i>19,600,000</i>	<i>19,600,000</i>	-	<i>19,600,000</i>	-
<i>Sewer Improvements</i>	<i>12/18/18</i>	<i>12/01/38</i>	<i>1,350,000</i>	<i>1,350,000</i>	-	-	<i>1,350,000</i>
<i>Riverside Crossing Park</i>	<i>12/18/18</i>	<i>12/01/38</i>	<i>1,750,000</i>	<i>1,750,000</i>	-	<i>1,750,000</i>	-
Total			192,642,788	146,076,858	-	86,200,728	59,876,130
<u>Unvoted Special Assessment Bonds</u>							
2001 Special Assessment	12/01/01	12/01/21	1,700,000	319,272	-	-	319,272
Total			1,700,000	319,272	-	-	319,272
<u>Unvoted Non-Tax Revenue Bonds</u>							
BSD Parking Structures (Tax-Exempt)	10/28/15	12/01/35	16,000,000	16,000,000	-	-	16,000,000
BSD Parking Structures (Taxable)	10/28/15	12/01/35	16,000,000	15,700,000	-	-	16,000,000
			32,000,000	31,700,000	-	-	32,000,000
<u>Voted G.O. Bonds</u>							
Woerner Temple Road	12/01/00	12/01/20	5,555,000	437,000	-	-	437,000
Emerald Parkway Overpass-Phase 7	12/01/00	12/01/19	6,565,000	519,000	-	519,000	-
Coffman Park Expansion	12/01/00	12/01/20	3,135,000	424,000	-	-	424,000
Total			15,255,000	1,380,000	-	519,000	861,000
Total Long-term Debt			\$ 241,597,788	\$ 179,476,130	\$ -	\$ 86,719,728	\$ 93,056,402

¹ "Other Sources" include special assessment collections, real estate property taxes, water system revenues, service payments in lieu of taxes, and hotel/motel tax revenue.

Indicates bonds that are anticipated to be issued December 18, 2018

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
PROJECTED LONG-TERM DEBT SCHEDULE
(Income tax supported debt only)

	2018	2019	2020	2021	2022	2023
Principal outstanding at the beginning of the year	\$ 97,069,728	\$ 113,831,506	\$ 118,767,961	\$ 119,213,769	\$ 117,521,278	\$ 113,280,778
Principal retired ¹						
Existing City Debt	4,588,222	4,896,045	3,941,692	3,979,991	3,918,000	3,800,000
Proposed New Debt	-	1,067,500	1,612,500	1,912,500	2,122,500	2,212,500
Principal issued ²	21,350,000	10,900,000	6,000,000	4,200,000	1,800,000	-
Principal outstanding at the end of the year	\$ 113,831,506	\$ 118,767,961	\$ 119,213,769	\$ 117,521,278	\$ 113,280,778	\$ 107,268,278
Amount of additional debt that could be supported ³	\$ 91,610,878	\$ 56,734,004	\$ 61,419,244	\$ 46,860,928	\$ 50,827,291	\$ 52,281,956

¹ Based on long-term debt outstanding as of 12/31/2018 and anticipated debt issuances.

² Issuance of debt based on major project listing and anticipated funding schedule.
The following issues are anticipated:

2019	\$10.9 million - Riverside Crossing Park
2020	\$6.0 million - North Pool
2021	\$4.2 million - Riverside Crossing Park
2022	\$1.8 million - River Forest Storm and Roadway Improvements
2023	\$ -

³ Pursuant to the City's Debt Policy which stipulates that the additional debt that could be supported is based on 90% of income tax revenue allocation for debt service.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
DEBT SERVICE PAYMENTS DUE
(Income Tax Supported Debt)

Debt Issue	2018	2019	2020	2021	2022	2023
Community Recreation Center Expansion (2018)	\$ 191,012	\$ -	\$ -	\$ -	\$ -	\$ -
Avery-Muirfield/US 33 interchange (2019)	\$ 577,000	\$ 575,700	\$ -	\$ -	\$ -	\$ -
Emerald Pkwy-Perimeter/Shier Rings (2019)	\$ 537,275	\$ 541,057	\$ -	\$ -	\$ -	\$ -
Service Complex expansion (2021)	\$ 275,233	\$ 274,107	\$ 277,758	\$ 179,863	\$ -	\$ -
Swimming Pool Construction (2025)	\$ 216,636	\$ 215,610	\$ 214,085	\$ 213,032	\$ 211,503	\$ 209,505
LED street lighting (2022)	\$ 266,550	\$ 261,850	\$ 265,825	\$ 263,775	\$ 265,200	\$ -
Justice Center Addition (2035)	\$ 781,494	\$ 783,494	\$ 780,294	\$ 780,294	\$ 781,994	\$ 781,369
Service Center Expansion (2037)	\$ 115,000	\$ 120,000	\$ 145,436	\$ 245,300	\$ 245,100	\$ 242,400
Historic District High Street/Pedestrian Bridge (2037)	\$ 955,000	\$ 975,000	\$ 1,186,450	\$ 2,016,350	\$ 2,013,750	\$ 2,011,650
Projected New Debt						
CML Library Parking Deck and Roads (2018 bond issue - \$19.3m)	\$ -	\$ 1,544,000	\$ 1,544,000	\$ 1,544,000	\$ 1,544,000	\$ 1,544,000
Riverside Drive Park (2018 bond issue - \$1.7m)	\$ -	\$ 136,000	\$ 136,000	\$ 136,000	\$ 136,000	\$ 136,000
Riverside Drive Park (2019 bond issue - \$10.9m)	\$ -	\$ 872,000	\$ 872,000	\$ 872,000	\$ 872,000	\$ 872,000
Riverside Drive Park (2021 bond issue - \$4.2m)	\$ -	\$ -	\$ -	\$ 336,000	\$ 336,000	\$ 336,000
River Forest Storm and Roadway Improvements (2022 bond issue - \$1	\$ -	\$ -	\$ -	\$ -	\$ 144,000	\$ 144,000
North Pool (2020 bond issue - \$6.0m)	\$ -	\$ -	\$ 480,000	\$ 480,000	\$ 480,000	\$ 480,000
Subtotal Existing & New Debt	\$ 3,915,200	\$ 6,298,818	\$ 5,901,849	\$ 7,066,614	\$ 7,029,547	\$ 6,756,924
Reserve for TIF Supported Debt³						
Bridge Park Roadway Network (2035)	\$ 181,437	\$ 181,437	\$ 182,887	\$ 182,387	\$ 2,145	\$ 4,645
Riverside Dr. Realignment/Roundabout/Riverside Park (2035)	\$ 184,493	\$ 591,025	\$ 611,725	\$ 612,125	\$ 512,125	\$ 665,875
Subtotal Reserve for TIF Supported Debt	\$ 365,930	\$ 772,462	\$ 794,612	\$ 794,512	\$ 514,270	\$ 670,520
Income tax revenue available for debt retirement	\$ 12,900,000	\$ 12,900,000	\$ 12,900,000	\$ 12,900,000	\$ 12,900,000	\$ 12,900,000
Balance available ¹	\$ 8,618,870	\$ 5,828,720	\$ 6,203,540	\$ 5,038,874	\$ 5,356,183	\$ 5,472,556
Amount of additional debt that could be supported ²	\$ 91,610,878	\$ 56,734,004	\$ 61,419,244	\$ 46,860,928	\$ 50,827,291	\$ 52,281,956

Estimated debt service obligations; Estimate assumes 20 year bonds at 5% and level payments.

¹ Funding not needed for debt service is utilized to fund cash basis projects.

² The City's debt policy stipulates that for the purposes of calculating debt capacity, only 90% of the amount reserved for debt service may be programmed.

³ The full debt payment for TIF supported debt is shown on Schedule 3.5 (under Service Payments); amount reflected here is the payment amount needed from income tax revenue due to insufficient TIF revenue. This amount sh not be included in the City's total amount of debt outstanding since the full debt service payment is reflected under Service Payments.

Note - Payments include both principal and interest and fees, if applicable.

Highlighted rows indicate anticipated future debt.

2019 - 2023
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM
DEBT SERVICE PAYMENTS DUE
(Debt Supported by Sources Other Than Income Tax)

Debt Issue	2018	2019	2020	2021	2022	2023
Service Payments						
Emerald Parkway-Phase 2 (2016) ¹	\$ -	\$ 279,391	\$ 281,181	\$ -	\$ -	\$ -
Rings Road Improvements (2020)	\$ 276,874	\$ 455,572	\$ -	\$ -	\$ -	\$ -
Woerner-Temple Road (2020)	\$ 452,222	\$ 311,802	\$ 313,799	\$ -	\$ -	\$ -
Perimeter Drive extension (2020)	\$ 308,990	\$ 157,264	\$ 159,711	\$ -	\$ -	\$ -
Emerald Parkway-Phase 7A (2020)	\$ 157,264	\$ 665,206	\$ 667,144	\$ 661,119	\$ 653,744	\$ 653,744
Industrial Parkway/SR 161 improvements	\$ 657,106	\$ 482,375	\$ 480,425	\$ 481,275	\$ 481,825	\$ 482,075
Emerald Parkway-Phase 8 (2033)	\$ 1,036,100	\$ 1,037,825	\$ 1,033,075	\$ 1,037,375	\$ 1,033,750	\$ 1,034,800
I-270/US 33/SR 161 Interchange-ROW (2023)	\$ 907,607	\$ 1,043,881	\$ 1,019,469	\$ 994,320	\$ 968,410	\$ 941,717
I-270/US 33/SR 161 Interchange-Construction (2034)	\$ 392,413	\$ 393,788	\$ 392,800	\$ 390,300	\$ 392,650	\$ 389,700
BSD Land Acquisition for Roundabout (2019/2033)	\$ 1,844,925	\$ 1,846,025	\$ 1,841,725	\$ 1,842,125	\$ 1,842,125	\$ 1,845,875
Riverside Dr. Realignment/Roundabout/Riverside Park (2035)	\$ 841,481	\$ 842,881	\$ 844,081	\$ 845,081	\$ 843,581	\$ 845,081
Bridge Park Roadway Network (2035)	\$ 718,231	\$ 718,231	\$ 718,231	\$ 718,231	\$ 718,231	\$ 718,231
Bridge Park Parking Structures - Tax Exempt (2044)	\$ 972,675	\$ 1,352,675	\$ 1,352,925	\$ 1,351,425	\$ 1,347,683	\$ 1,348,683
Bridge Park Parking Structures - Taxable (2035)	\$ 628,000	\$ 632,500	\$ 631,550	\$ 630,300	\$ 628,750	\$ 631,900
John Shields Parkway Phase II (2036)	\$ 9,676,264	\$ 10,221,398	\$ 9,736,117	\$ 8,951,551	\$ 8,910,749	\$ 8,891,806
Water and Sewer Funds						
Upper Scioto West Branch (2018)	\$ 671,161	\$ -	\$ -	\$ -	\$ -	\$ -
Darree Fields Water Tower (2029)	\$ 140,963	\$ 134,463	\$ 136,850	\$ 134,600	\$ 137,100	\$ 138,950
Dublin Road Water Tower (2032)	\$ 156,463	\$ 159,413	\$ 156,788	\$ 158,563	\$ 159,613	\$ 160,513
Sewer Line Repairs (2029)	\$ 150,200	\$ 148,625	\$ 150,738	\$ 148,263	\$ 150,513	\$ 152,063
Sewer Line Repairs (2032)	\$ 170,750	\$ 168,550	\$ 170,725	\$ 172,200	\$ 168,000	\$ 168,725
Sewer System Improvements (2035)	\$ 184,969	\$ 183,069	\$ 186,169	\$ 184,169	\$ 186,669	\$ 186,419
Sewer System Improvements/Extensions (2037)	\$ 103,800	\$ 102,800	\$ 100,300	\$ 103,300	\$ 101,100	\$ 100,000
Sewer System Improvements/Extensions (2038)	\$ 108,000	\$ 108,000	\$ 108,000	\$ 108,000	\$ 108,000	\$ 108,000
Sewer System Improvements/Extensions (2039)	\$ -	\$ 245,600	\$ 245,600	\$ 245,600	\$ 245,600	\$ 245,600
Sewer System Improvements/Extensions (2040)	\$ -	\$ -	\$ 353,600	\$ 353,600	\$ 353,600	\$ 353,600
Sewer System Improvements/Extensions (2041)	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000	\$ 120,000
Sewer System Improvements/Extensions (2042)	\$ -	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000
Special Assessments						
Ballantree Improvements (2021)	\$ 128,148	\$ 127,624	\$ 129,323	\$ 83,743	\$ -	\$ -
Property Taxes (Inside millage)						
Parkland acquisition-Coffman Park (2020)	\$ 239,540	\$ 240,520	\$ 207,000	\$ -	\$ -	\$ -
Hotel/Motel Tax Revenues						
Arts Facility (2020)	\$ 163,909	\$ 165,400	\$ 166,460	\$ -	\$ -	\$ -
Total - Non-Income Tax Supported Debt	\$ 11,894,166	\$ 12,005,461	\$ 11,847,669	\$ 10,763,589	\$ 10,760,943	\$ 10,745,676

¹ Service payments are sufficient or exceed annual debt service obligations.

² Annual service payments are not sufficient to retire the annual debt. Additional amounts will be advanced from the General/Capital Improvements Tax Fund and then repaid during the term of the TIF.

Highlighted rows indicate anticipated future debt.

Estimated debt service obligations are based on 20 year bonds at 5% and level payments.

City of Dublin
2019 - 2023 Capital Improvements Program
Debt Proceeds

Proposed Project	2019	2020	2021	2022	2023
<u>Long-Term Bonds-Retired by Income Taxes</u>					
City Facilities					
Dublin Community Pool North	\$ -	\$ 6,000,000	\$ -	\$ -	\$ -
Riverside Crossing Park	\$ 10,900,000	\$ -	\$ 4,200,000	\$ -	\$ -
Hyland-Croy Road Corridor Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
River Forest Storm and Roadway Improvements	\$ -	\$ -	\$ -	\$ 1,800,000	\$ -
Total - Retired by Income Taxes	\$ 10,900,000	\$ 6,000,000	\$ 4,200,000	\$ 1,800,000	\$ -
<u>Long-Term Bonds-Retired by Utility Revenues</u>					
Sewer Improvements/Extensions	\$ 3,070,000	\$ 4,420,000	\$ 1,500,000	\$ 1,500,000	\$ -
Total - Retired by Sewer Revenues	\$ 3,070,000	\$ 4,420,000	\$ 1,500,000	\$ 1,500,000	\$ -
TOTAL	\$ 13,970,000	\$ 10,420,000	\$ 5,700,000	\$ 3,300,000	\$ -

CITY OF DUBLIN
 CAPITAL IMPROVEMENT PROJECTS
 2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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ADMINISTRATION

CAPITAL ALLOCATIONS

AL191	Land Acquisition	0	500	500	500	500	500	500	2,500	0	2,500
AL192	Parkland Acquisition	0	650	650	650	650	650	650	3,250	0	3,250
AL193	Mobility Initiatives	0	250	250	250	250	250	250	1,250	0	1,250
AA191	Contingencies	0	250	250	250	250	250	250	1,250	0	1,250
ES142	Allocation for Sewer Extensions	0	400	200	200	200	200	200	1,000	0	1,000

10/9/2018

2019-2023	TOTAL	0	2,050	1,850	1,850	1,850	1,850	1,850	9,250	0	9,250
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2018-2022	TOTAL - ADMINISTRATION	0	2,050	2,050	2,050	2,050	2,050	N/A
	\$\$ Difference	0	0	(200)	(200)	(200)	(200)	N/A
	% Difference	0.0%	0.0%	-9.8%	-9.8%	-9.8%	-9.8%	N/A



2019 - 2023 Capital Improvements Program

ADMINISTRATION – CAPITAL ALLOCATIONS

AL191 **Annual Allocation for Land Acquisition**

Funding of \$500,000 is allocated annually for potential land acquisitions. Funding allows the City to take advantage of opportunities that may develop over the course of the five-year CIP.

AL192 **Annual Allocation for Parkland Acquisition**

The amount programmed is based on estimated revenue in the Parkland Acquisition Fund. The majority of the revenue credited to this fund is from property tax revenue generated from the City's inside millage. The property tax revenue from the City's inside millage (1.75 mills) was allocated 100 percent to the Parkland Acquisition Fund from 2001-2006. Beginning in 2007, the City began allocating .95 mills of the total 1.75 mills to the Parkland Acquisition Fund and the remaining .80 mills was allocated to the Capital Improvements Tax Fund. In 2010, the City began allocating 1.4 mills to the Capital Improvements Tax Fund and the remaining .35 mills to the Parkland Acquisition Fund. This allocation is reviewed and can be changed annually. As part of the 2019 – 2023 CIP, City Council approved the same allocation through 2023.

The funding in the Parkland Acquisition Fund can be used for the acquisition of parkland, open space and/or sites for recreational facilities. Prior to the acquisition of land, authorizing legislation is required to be adopted by City Council.

The funding programmed provides for the annual debt service payments on the debt issued to acquire the land for the expansion of Coffman Park. The final debt service payment for the expansion of Coffman Park will be made in 2020.

The chart below is a recap of estimated revenues available less committed obligations:

	2019	2020	2021	2022	2023
Estimated revenue (A)	\$795,200	\$795,200	\$795,200	\$795,200	\$795,200
Less:					
Debt (Coffman Park)	<u>(240,520)</u>	<u>(207,000)</u>	---	---	---
Estimated balance available	\$554,680	\$588,200	\$795,200	\$795,200	\$795,200

(A) – based on the approved millage rate for 2019.

2019 - 2023 Capital Improvements Program

AL193 Annual Allocation for Mobility Initiatives

This allocation provides funding to pursue different mobility options for the City. Currently, the majority of City residents and corporate citizens rely on personal vehicles for their mobility needs. City Council has also identified a target of elevating Dublin's "Bike Friendly City" award from bronze to silver status. The bike share program was cited by the League of American Bicyclists as an opportunity to improve Dublin's score, and has been an often requested transit-oriented option from the City's mobility study and public forums.

Currently, the City is working with LimeBike to do a pilot, dockless bike share program at no cost to the City. A dockless bike share program does not require the added expense of a docking station. With the dockless systems bicycles can be parked within a defined district or at a bike rack location in a park or along the sidewalk. Dockless bikes can be located and unlocked using a smartphone application, and are designed for short spontaneous trips.

An annual allocation is programmed in the five-year period to study and review other mobility options including:

- Pilot workforce shuttle program
- Pilot shuttle program that is accessible for senior citizens and people with disabilities
- Wayfinding program for shared-use paths.

As options and plans are finalized, cost estimates will be re-evaluated to reflect additional changes that may be needed for construction, equipment purchases, maintenance and regular operations.

AA191 Annual Allocation for Contingencies

Funds are allocated for change orders that are related to prior year projects that are carried over from one year to the next, or minor unanticipated projects.

ES142 Annual Allocation for Sewer Extensions

This allocation provides funding for sanitary sewer extensions to areas that do not currently have access to the public sanitary sewer system. The design and construction of extensions will be prioritized, programmed, and implemented in accordance with the Public Water Utility and Sanitary Sewer Utility Extensions to Existing Developed Property Policy adopted by Dublin City Council on December 7, 2015.

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(6) Facilities

CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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CITY FACILITIES

CAPITAL MAINTENANCE

	<u>Citywide</u>										
AB191	Building Maintenance/Renovations	0	905	680	730	545	545	1,380	3,880	140	4,020
AB192	DCRC - Replacement Chiller Units (2)	0	0	0	410	0	0	0	410	0	410
10/9/2018	TOTAL	0	905	680	1,140	545	545	1,380	4,290	140	4,430

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

	<u>Fleet</u>										
AB174	Salt Barns (2)	0	80	0	0	0	0	0	0	1,000	1,000
	<u>Justice Center</u>										
AB061	Covered Parking	0	0	0	0	0	0	0	0	1,800	1,800
	<u>Dublin Community Recreation Center (DCRC)</u>										
AB173	Pool Tile Replacement/Enhancement	0	0	0	0	0	0	0	0	240	240
	<u>New City Hall (Dublin Civic Campus)</u>										
AB193	City Hall FF&E	0	0	0	0	750	0	0	750	0	750
AB194	Council Chambers	0	0	3,300	0	0	0	0	3,300	0	3,300
10/9/2019	TOTAL	0	80	3,300	0	750	0	0	4,050	3,040	7,090

2019-2023	TOTAL - CITY FACILITIES	0	985	3,980	1,140	1,295	545	1,380	8,340	3,180	11,520
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2018-2022	TOTAL - CITY FACILITIES	0	985	1,740	380	440	600	N/A
	\$\$ Difference	0	0	2,240	760	855	(55)	N/A
	% Difference	0.0%	0.0%	128.7%	200.0%	194.3%	-9.2%	N/A



2019 - 2023 Capital Improvements Program

FACILITIES CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the facilities projects unless otherwise noted.

AB191 **Building Maintenance/Renovations**

The amount requested for **2019** projects is broken down as follows:

Location	Description	Amount
City Hall & Annex	Replace heat pumps (6 total)	\$27,000
	Renovate 2 nd Floor Restroom	35,000
Fleet Building	Replace one overhead door in vehicle wash bay	45,000
	CNG – priority panel with cold weather package	43,000
Justice Center	Replace two small rubber roofs	100,000
	Additional cooling for 911 tech closet (EOC Radio Room)	25,000
Parks	Replace pavilion roof in Coffman Park	25,000
	Renovations/repairs for Coffman Park (i.e. restroom exterior staining, fireplace repairs in Coffman pavilion)	30,000
	Roof and gutter repair – 6665 Shier Rings Road (Golf Club)	25,000
	Demolish 6716 Dublin Road house (Margaroli)	40,000
Dublin Community Recreation Center (DCRC)	Replace AON roof top units and update automated logic controls	55,000
	LED lighting retrofits	25,000
	Replace worn carpet	50,000
	Replace worn wooden doors	30,000
Various Citywide Maintenance and Renovations	Small in-house renovations	25,000
	HVAC and pump replacements	25,000
	Carpet and other flooring replacements	45,000

2019 - 2023 Capital Improvements Program

Location	Description	Amount
Various Citywide Maintenance and Renovations (continued)	Painting and patching walls as needed	30,000
Total (2019)		\$680,000

AB192 DCRC – Replacement Chiller Units

Funding for this project provides for the replacement of two Trane chillers that provide cooling for the recreation facility that comprises the original DCRC Phase 1 footprint. The DCRC's chiller plant has been in operation for 22 years. According to the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), the life expectancy of this type of chiller is 20 to 23 years. The chillers at the DCRC are nearing the end of their life expectancy. The chillers are the only source of cooling for DCRC phase 1. This includes four air handlers that add cooling to the main entrance, the weight rooms, gym, leisure pool and lap pool as well as the babysitting area, administration and check-in desk. The chillers are also tasked with dehumidification. If one of the chillers fails, the facility will be overcome with moisture from the pools and condensation will collect on ceiling tiles, ductwork and insulation on hot days.

Funding for the replacement chiller units is programmed in 2020.



2019 - 2023 Capital Improvements Program

FACILITIES

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AB174 Salt Barns

Construction is reflected beyond the five-year program period as small repairs are made to the current structures. The barns are monitored for maintenance and the project will be re-evaluated as necessary.

Funding for this project will be provided through issuance of debt.

AB061 Justice Center

Major renovations to the Justice Center including a two story addition and an expansion of the Communications (Dispatch) area were completed in late 2016. Expansion was necessary to support the growth of the City and to provide dispatching services to other entities. The cost of this expansion is taken into consideration when determining the rates charged to participating entities dispatching services.

The amount shown beyond the five-year program period is for a potential carport project to shelter patrol vehicles.

AB173 Dublin Community Recreation Center (DCRC)

Funds programmed beyond the five-year program period are for pool tile replacement to replace the original wall tile that matches with the current color palette. This will improve the overall aesthetics of the leisure and lap pools.

This project will require the indoor pools to be closed for a period of time beyond the normal 10-day shutdown. Sufficient time will be necessary to give public notice about the extended pool closure, and make any alternate plans if necessary.

Due to the cosmetic nature of this project, the work is reflected beyond the five-year program period and will be re-evaluated as funds become available.

City Hall (Dublin Civic Campus)

In January 2018 (Ordinance #1-18), the City purchased the Delta Energy Building at 5555 Perimeter Drive to provide for a new civic complex. The property encompasses more than 2.5 acres. This acquisition provides a unique opportunity for the City to pursue the realization of the City's 1997 and 2007 Community Plan for the area of Coffman Park and adjacent property to serve as Dublin's civic/government center while also consolidating City operations.



2019 - 2023 Capital Improvements Program

AB193 City Hall FF&E

Funding provides for the FF&E (furniture, fixtures and equipment) for the relocation of staff to the building at 5555 Perimeter Drive. This includes items that have no permanent connection to the structure of the building such as furniture and workstations, and other miscellaneous office appurtenances.

Funding is programmed for this project in 2021. Plans include the relocation of City staff from the current City Hall building located on Emerald Parkway. It is expected that the City's development functions (development, economic development, planning, zoning and building) will move to the existing City Hall location in anticipation of the sale of the 5800 Shier Rings Road building.

AB194 Council Chambers

Funding provides for the design and construction of a building addition at 5555 Perimeter Drive to accommodate a new Council Chambers, related offices, and additional meeting spaces. The intention is to provide a central location in the community that is convenient and easily accessible for residents and visitors.

Funding is programmed in 2019 for design and construction of this project with costs for the project partially off-set by the sale of the 5800 Shier Rings Road building. Once the new construction is completed, City Staff will move to the new location.

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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CITY-WIDE FLEET

CAPITAL MAINTENANCE

AV191	Replacement Vehicles	0	1,000	1,300	820	1,065	990	1,010	5,185	0	5,185
AV193	Replacement Equipment	0	505	265	285	425	260	135	1,370	0	1,370
10/9/2018	TOTAL	0	1,505	1,565	1,105	1,490	1,250	1,145	6,555	0	6,555

NEW CAPITAL ASSETS

AV191	New Vehicles	0	75	115	75	0	0	0	190	0	190
AV193	New Equipment	0	105	0	40	0	0	0	40	0	40
10/9/2018	TOTAL	0	180	115	115	0	0	0	230	0	230

2019-2023	TOTAL - CITY-WIDE FLEET	0	1,685	1,680	1,220	1,490	1,250	1,145	6,785	0	6,785
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2018-2022	TOTAL - CITY-WIDE FLEET	0	1,685	1,650	1,470	1,095	1,300	N/A
	\$\$ Difference	0	0	30	(250)	395	(50)	N/A
	% Difference	0.0%	0.0%	1.8%	-17.0%	36.1%	-3.8%	N/A



2019 - 2023 Capital Improvements Program

FLEET MANAGEMENT PROGRAM CAPITAL MAINTENANCE AND NEW CAPITAL ASSETS

Note: The Capital Improvement Tax Fund is the source of funding for all of the fleet projects unless otherwise noted.

AV191 Replacement and New Vehicles

The Fleet Management Replacement Policy was implemented to provide replacement cycles for vehicles and equipment that ensures the ongoing reliability and safety of the City's fleet that is necessary to provide quality services. The program's goal is to provide efficient fleet and equipment, and to maximize the return to the City on vehicle disposal.

Vehicles are scheduled for replacement based on years of service and/or mileage. Based on additional evaluations of the City's fleet, some vehicles have been moved back based on low usage and condition. Final determination for replacement are made by the Fleet Manager based on a physical evaluation of the vehicle and a points system. The amount programmed for each department by year is listed below.

The City will continue to identify areas of reduction through the use of pool cars as well as savings through "right sizing" its fleet based on the need of the end user. Also, the City will continue to replace its vehicles, whenever appropriate, with compressed natural gas (CNG) and other alternative fuel vehicles to work towards City Council's goal of environmental sustainability.

The vehicle request for the five-year period includes:

<u>Dept./Div.</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Replacement Vehicles:	\$1,300,000	\$820,000	\$1,065,000	\$990,000	\$1,010,000
New Vehicles:					
Motor Pool	115,000	75,000	0	\$0	\$0
Total	\$1,415,000	\$895,000	\$1,065,000	\$990,000	\$1,010,000

2019 - 2023 Capital Improvements Program

AV193 Replacements and New Equipment

The equipment request for the five-year period includes:

<u>Dept./Div.</u> <u>Replacement</u> <u>Equipment:</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
	\$265,000	\$285,000	\$425,000	\$260,000	\$135,000
New Equipment	0	40,000	0	0	0
Total	\$265,000	\$325,000	\$425,000	\$260,000	\$135,000

A breakdown of 2019 replacement equipment includes:

Parks Operations

Replace Bob Cat Skid Steer
 Replace John Deere Tractor
 Replace JD 270 Skid Steer
 Replace Stump Grinder
 Replace Lily Sprayer

Street & Utilities Operations

Replace Leaf Vacuum - Orange Pull-Behind

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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PARKS & RECREATION

CAPITAL MAINTENANCE

AR191	Park Renovations / Rehabilitations	0	910	800	800	800	800	800	4,000	0	4,000
AB192	Public Art Maintenance	0	15	15	15	15	15	15	75	0	75
10/9/2018	TOTAL	0	925	815	815	815	815	815	4,075	0	4,075

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AG19B	Bike Rack Installation	0	25	0	25	0	25	0	50	0	50
GR121	Dublin Arts Council Site Renovations	283	350	35	0	400	0	0	435	725	1,160
GR113	IGS Park (TIF)	161	0	30	150	0	0	0	180	0	180
GR161	Barronsmore Mound (Ballantrae)	0	0	0	0	0	0	0	0	115	115
GR991	Darree Fields Development	6,554	290	0	0	0	0	0	0	1,215	1,215
GR993	Amberleigh Community Park	2,634	0	0	0	0	0	0	0	675	675
GR992	Coffman Park Expansion	5,720	425	0	0	0	0	0	0	765	765
GR114	Ferris-Wright Park (Holder-Wright Farm and Earthworks)	2,176	1,725	0	0	0	0	0	0	2,035	2,035
GR133	Riverside Crossing Park	7,782	1,100	10,900	0	7,000	0	0	17,900	8,400	26,300
GR163	Tuller Flats Park (TIF)	0	0	0	0	0	0	0	0	460	460
GR115	DCPN (North Pool) Renovations	795	100	1,300	6,000	0	0	0	7,300	6,000	13,300
GR171	DCPS (South Pool) Renovations	0	190	190	150	0	0	0	340	0	340
GR172	John Shields Parkway Greenway (TIF)	0	0	0	0	0	0	0	0	1,425	1,425
GR181	Grounds of Remembrance	0	650	0	0	0	0	0	0	0	0
GR182	ML "Red" Trabue	0	0	0	0	0	0	0	0	300	300
GR190	West Bridge Street/161 - Streetscape Enhancements	0	0	250	0	0	0	0	250	600	850
GR191	Emerald Parkway - Streetscape Enhancements	0	0	0	0	0	0	0	0	330	330
GR192	Golf Club of Dublin Enhancements (6665 Shier Rings Road)	0	0	20	0	0	0	0	20	0	20
10/9/2018	TOTAL	26,105	4,855	12,725	6,325	7,400	25	0	26,475	23,045	49,520

2019-2023	TOTAL - PARKS & RECREATION	26,105	5,780	13,540	7,140	8,215	840	815	30,550	23,045	53,595
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2018-2022	TOTAL - PARKS & RECREATION	0	3,570	12,540	6,505	7,340	840	N/A
	\$\$ Difference	0	2,210	1,000	635	875	0	N/A
	% Difference	0.0%	61.9%	8.0%	9.8%	11.9%	0.0%	N/A



2019 - 2023 Capital Improvements Program

PARKS CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the parks projects unless otherwise noted.

AR191 Park Renovations / Rehabilitations

Funding is programmed for renovation/ improvements to various existing parks. The maintenance and rehabilitation of the City's parks is an important part of the Parks CIP.

The following renovations and improvements are programmed in 2019:

Location	Description	Amount
Avery Park	North entrance flower bed walls repair	\$50,000
Balgriffin Park	Frisbee course concrete tee pad installation	10,000
Donegal Cliffs Park / Trinity Park / Monterey Park	Basketball court resurfacing	60,000
Cemetery - Columbarium	Plaza construction	30,000
Darree Fields	Baseball netting installation along fields 11 & 13 (prevent balls from reaching parking lot area)	25,000
	Shade structure replacements - fields 13,14, & 15 (replacement of degrading fabric with metal-type structure)	120,000
Kaltenbach Park	Outdoor Exercise Equipment Replacement	80,000
Wyndham Park / Killilea Park / Westbury Park / Brighton Commons Park	Playground equipment replacements (structures have exceeded their life cycle or replacement parts are not available for the equipment)	300,000
Scioto Park	Stone retaining wall repairs/replacement (west side by parking lot)	60,000
Skate Park	Lightening prediction system expansion	10,000
Monterey Park / Donegal Cliffs Park	Tennis court resurfacing	80,000
Total Requested		\$825,000
Budget Adjustment		(25,000)
Total Budgeted		\$800,000

2019 - 2023 Capital Improvements Program

AB192 **Public Art Maintenance**

This project provides for annual funding for on-going maintenance, repairs and restoration of public art work owned by the City. Funding is provided for this project from the Hotel/Motel Tax Fund. Like all other infrastructure, the City's artwork is in need of routine maintenance, occasional repairs, and full restoration to prolong its life.





2019 - 2023 Capital Improvements Program

PARKS

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AG19B Bike Rack Installation

Funding provides for an allocation of installation and bike racks throughout the City. City staff, as well as the Bicycle Advisory Task Force (BATF), identified the need for additional bike racks. Racks will consist of a mix of standard, custom and functional sculpture bike racks based on location and need.

GR121 Dublin Arts Council Site Renovations

Funding provides for constructing overflow parking, site grading and terracing at the rear of the building, and retaining walls reflected in 2019 and 2021. Terracing at the rear of the building will allow for better programming opportunities; overflow parking (reinforced turf) will protect the grounds.

Project design is programmed in 2019, with construction to be in 2021. Funding for this project will be through the Hotel/Motel Tax Fund.

GR113 IGS Park

This project will provide a park area adjacent to commercial areas (Interstate Gas Supply – IGS). The land for the park was provided by IGS Energy per the Economic Development Agreement with the City. Funds in 2019 and 2020 are for a second internal bridge connecting IGS to the park, and providing for a picnic grove once the building expansion has been completed. These amenities will provide a park area for daytime residents to walk and picnic.

The funding source for this project will be the Thomas/Kohler TIF.

GR161 Barronsmore Mound (Ballantrae)

This project is reflected beyond the five-year program period, and will be reconsidered as funds become available. The project plans include walking paths, plaza, bike racks, benches, and adding electricity.

GR991 Darree Fields Park

Darree Fields Park is located on Cosgray Road and includes over 150 acres developed in accordance with the Park's Master Plan. Amenities include ball diamonds, playgrounds, public art, restrooms, nature areas, shelters, soccer fields, and volleyball areas. Funding reflected beyond the five-year period provides for the completion of the Park Master Plan at a later date. Plans include additional ball fields with related walks, parking lot, site furnishings and related landscaping.



2019 - 2023 Capital Improvements Program

GR993 **Amberleigh Community Park**

The City acquired approximately 12 acres of riverfront property in 1997 and, as part of the Amberleigh North residential development, the developer dedicated approximately 11 acres of riverfront property to the City. The two tracts of land combine to provide a community scale park along the Scioto River providing river access.

Funding reflected beyond the five-year program period provides for the completion of the Park's Master Plan and includes design of a half basketball court with fence, hard court play area, shelter, parking lot and boardwalk/pier.

GR992 **Coffman Park Expansion**

City Council adopted a policy to acquire the properties along Post Road from 6124 Post Road east to existing Coffman Park to create a scenic "central" park for the City. The Coffman Park Expansion Plan Task Force (the Task Force) was created by City Council in 2002 to assist with this project. The Task Force considered a wide range of optional park expansion ideas and formulated and compiled its recommendations and concept plans into the Coffman Park Expansion Task Force Report. The Task Force Report was reviewed and adopted by City Council on November 3, 2003.

The final property identified in the Coffman Park expansion was acquired in 2009. The funding programmed in 2010 provided for an analysis of potential phasing of the elements identified in the Task Force Report and preliminary cost estimates. This information was necessary to evaluate the timing and amount of funding needed to begin future development. In 2010, staff revisited the plan for Coffman Park to verify original assumptions and update it for current conditions.

Funding programmed beyond the five-year period provides construction of two basketball courts, court lighting, and provides for demolition of the existing courts on the east side of the park. Also planned in the future is an update to the Master Park Plan for the western side of the park near the area where the old Nyrop House once stood. The plan will re-envision this area of the park, and the amenities that fit the changing needs of the users. Construction of those amenities will be programmed once the plan is completed and approved.

GR114 **Ferris-Wright Park (Holder-Wright Farm and Earthworks)**

This park is situated on an archeological and historical site on Bright Road. The plan for the Park is to preserve and showcase the ancient earthworks, farm house and natural features that are a significant part of Dublin's history.

2019 - 2023 Capital Improvements Program



These prehistoric Hopewellian burial mounds and earthworks are considered to be one of the best examples of prehistoric community centers in the state. The other significant features of the site is the Holder-Wright farmhouse. The farmhouse is one of the few remaining examples in central Ohio of architecture from the early 1800s. Together these unique cultural resources provide a terrific interpretive and educational opportunity for residents and visitors.

Park amenities include a restroom facility, parking lot with entry drive, utility extension, small pedestrian bridge, trail to visitor orientation center (old farmhouse), shared-use path from Emerald Parkway to parking lot, and internal compacted gravel pedestrian paths. Artifact display cases, artifact replications, and educational materials are also programmed.

CT Consultants was commissioned by the City to provide the master planning for the park. Completion of the final phase of master plan construction is shown beyond the five-year program period. It includes funds for design of future restoration of earthworks, interpretive signage, outdoor demonstration garden, shelter, overhead utility burial, and driveway removal.



2019 - 2023 Capital Improvements Program

GR133 Riverside Crossing Park

First conceived in the Scioto River Corridor Framework Plan, and most recently affirmed in the May 23, 2016 City Council approval of the Scioto Riverside Park Master Plan, this project provides for the construction of a new central park on both sides of the Scioto River adjacent to Dublin's historic core. The architect/planning firm contracted for the project is MKSK.

The park will ultimately link to other regional parks and recreational systems through potential bicycle/pedestrian facilities, and canoe/kayak access points. The two sides of the park will be linked by a pedestrian-bicycle bridge, with public plazas providing access to restaurants, shops, a new library, and the broader mix of destinations east and west. The park along the west side of the Scioto River is more than 19 acres envisioned as a naturalized area with connections to the Indian Run greenway, water access, and trail systems. The 16 acre park along the east side will feature more active areas to allow for assembly space, restrooms/pavilion, extensive paths and landscaping, site lighting and river overlooks.

In addition to fiscal considerations, timing of the planned river park improvements are being driven in part by the implementation of the park's most iconic feature, the pedestrian bridge crossing the Scioto River. Capital programming prioritization is centered on the implementation of the pedestrian bridge as well as the construction of the plazas associated with the landing areas providing access to that bridge itself.

2019 - \$10,900,000 – East Park Upper Plaza and West Plaza site improvements (including railing and masonry packages), and East Park Lower Plaza. The future pedestrian bridge landing plaza on the east side of the River will include a large gathering space, pavilion with comfort stations; these will provide opportunity for a variety of programmed activities.

2021 - \$7,000,000 – East Park Open Space and Events Lawn, and West Plaza park path improvements, site stabilization and site restoration.

2019 - 2023 Capital Improvements Program



2019 - 2023 Capital Improvements Program



Funds reflected beyond the five-year program period include funding on the west side of the river that includes extension of Dublin Spring Park north to the Indian Run Creek, a network of nature trails, a small 10-20 car parking lot, canoe launch, pedestrian foot bridges, boardwalk, site amenities and landscaping. Also included beyond 2023 is programming for the design and construction of the east landing of the John Shields (JSP) Bridge that includes climbing walls (both natural and artificial), paths down to, and along the river on the east side. The John Shields Parkway bridge related park improvements are contingent on the capital programming and construction of the bridge.

This project will be funded through general obligation debt that will be issued. Advances from the General Fund will be made in the meantime if needed to meet expenditures, and then the advances will be repaid with the bond proceeds.

GR163 Tuller Flats Park

This project is to design and develop a highly visible park area surrounded by multi-family housing on John Shields Parkway. Park amenities are yet to be determined, but aesthetics will be highly important. The funding source for this project will be the Tuller TIF. Funding is currently not programmed in the five-year period. Programming of the project will be driven by development (phase 2 Tuller Flats TIF revenue).



2019 - 2023 Capital Improvements Program

GR115 Dublin Community Pool North Renovation (DCPN)

This project provides for the demolition and reconstruction of the DCPN. The facility is nearly 30 years old and the condition of DCPN has continued to deteriorate. The main pool shell is losing its structural integrity; each year large sections of concrete have been removed and patched to prevent leaks, tripping and safety hazards. Patching is a temporary solution and loose aggregate is often visible during the operating season. This renovation will update the facility to meet current industry standards; including zero depth entry. The main bathhouse, which includes the front desk and staff offices, will be updated to meet the current needs of the facility.

A site survey is currently underway by MSA Architects. The funding programmed in 2019 will fund the design and current maintenance needs, with construction programmed to begin in 2020. The facility will be designed with the option of adding an enclosure in future years. The amount reflected beyond 2023 is for the enclosure project which will be completed as funding becomes available.

GR171 Dublin Community Pool South Renovation (DCPS)

During recent repairs to the pool joints, hollow spots were found in the Diamond Brite surface; eventually cause the surface to crack and break-off exposing the concrete underneath these.

Funding in 2019 provides for repair/replacement of the Diamond Brite pool surface in the lap pool, and replacement of the fabric shade arbors with a solid roof. Funding in 2020 includes funding for the repair/replacement of the Diamond Brite pool surface in the leisure pool.

GR172 John Shields Parkway Greenway

This project provides for the construction of a highly visible greenway area from Riverside Drive to Village Parkway. Currently, the greenway project is reflected beyond the five-year program period. Construction funding contingent on Phase 2 Tuller Flats TIF revenue.

GR181 Grounds of Remembrance (Buffer)

The Grounds of Remembrance in Dublin Veterans Park is a place for reflection and a tribute to those who have served in the armed forces. This project provided funding in 2018 to install a reserve area on the south side of the Grounds of Remembrance (north side of the Library and Rock Cress Parkway) to preserve the serenity and relative seclusion of the area as the adjacent Library property re-develops. The project plan includes a retaining wall and plantings to provide a buffer area for the park while keeping with the original intent of the artistry of the site. Turner Construction has been contracted for this project.



2019 - 2023 Capital Improvements Program

GR182 ML "Red" Trabue Park

This project provides for the addition of an arbor and paved standing area (rentable event venue), and a restroom facility.

Funding for these amenities is reflected beyond the five-year program period.

GR190 West Bridge Street/ SR 161 – Streetscape Enhancements

This project provides for streetscape enhancements of one of the major gateways into the City of Dublin spanning West Bridge Street/SR 161 from the 270/33 interchange to Franklin Street.

Funding programmed in 2019 provides for the construction of additional free-standing stone walls and plantings along the corridor. Funding beyond the five-year program period provides for the design and construction of the Dublin plaza frontage portion of the corridor including pedestrian walkways, retaining walls, and landscaping. Work in portions of the right-of-way will require approvals from ODOT.

GR191 Emerald Parkway – Streetscape Enhancements

This project provides for streetscape enhancements along portions of Emerald Parkway to re-work tree plantings and replacement of some of the current plantings with color and texture that will enhance the visual aesthetics of the street's character throughout the year.

Funding is reflected beyond the five-year period. Enhancements will be completed as funding becomes available.

GR192 Golf Club of Dublin Enhancements

This project provides funding in 2019 for condition assessment, and minor maintenance needed for the historic home located on the Golf Club of Dublin site at 6665 Shier Rings Road.

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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POLICE

CAPITAL MAINTENANCE

PP083	Replacement Lasers	53	10	10	0	0	0	0	10	0	10
PP084	Replacement Radars	76	10	10	0	0	0	0	10	0	10
PP168	Delaware Tactical Unit (DTU) Equipment	18	0	0	0	20	0	0	20	0	20
PP171	Walkie Upgrades	0	150	150	150	0	0	0	300	0	300
PP181	Replacement Bicycles	0	0	20	0	0	0	0	20	0	20
PP183	Replacement/Upgrade Tasers	117	0	175	0	0	0	0	175	0	175
PP190	Replacement Datamasters	0	0	25	0	0	0	0	25	0	25
PP191	Replacement Ballistic Shields	0	0	0	0	0	0	35	35	0	35
PP192	Replacement Speed Trailers	0	0	0	0	0	0	25	25	0	25
10/9/2018	TOTAL	264	170	390	150	20	0	60	620	0	620

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

PP132	Automatic License Plate Readers	315	0	120	0	0	0	0	120	0	120
PP193	Consoles for Radio Room (additional)	0	0	0	270	0	0	0	270	0	270
PP194	EOC Room Enhancements	0	0	25	0	0	0	0	25	0	25
PP195	Unmanned Aerial Vehicle (UAV)	0	0	20	0	0	0	0	20	0	20
PP196	Body Cameras & Mobile Video Systems	0	0	340	0	0	0	0	340	0	340
PP197	Drug Disposal Incinerator	0	0	0	0	45	0	0	45	0	45
10/9/2018	TOTAL	315	0	505	270	45	0	0	820	0	820

2019-2023	TOTAL - POLICE	579	170	895	420	65	0	60	1,440	0	1,440
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2018-2022	TOTAL - POLICE	0	170	370	210	80	0	N/A
	\$\$ Difference	0	0	525	210	(15)	0	N/A
	% Difference	0.0%	0.0%	141.9%	100.0%	-18.8%	0.0%	N/A



2019 - 2023 Capital Improvements Program

POLICE CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the Police projects unless otherwise noted.

PP083 Replacement Lasers

Funds are programmed in 2019 to replace aging traffic lasers. Traffic lasers are used by patrol officers to assist them with their traffic enforcement duties. Based on their life expectancy and for maintenance of current technology of speed detection equipment, lasers are on a 10-year replacement cycle.

PP084 Replacement Radars

Funds are programmed in 2019 to replace aging radars. Front line police vehicles are equipped with traffic radars to assist patrol officers with traffic enforcement duties. Based on the life expectancy of the equipment, and for maintenance of current technology of speed detection equipment, radars are on a 10-year replacement cycle.

PP168 DTU Equipment

Funds are programmed in 2021 to provide for equipment to support additional Dublin officers operating with the Delaware Tactical Unit (DTU). The City currently has two Dublin Police Department members on the team. The equipment is necessary to ensure the safety and efficiency of the officers during high-risk operations such as barricades, hostage situations, and working high-risk search warrants. The effectiveness of the Community Impact Unit (CIU) has increased the need for additional tactical teams. As the largest agency represented in the partnership, the City would like to increase its proportional participation in the DTU.

PP171 Walkie Upgrades

Funding is programmed annually in 2018 through 2020 for upgrade and replacement of portable radios (walkies) for the Police Department. The current portable radios carried by law enforcement staff were purchased in 2007, 2008 and 2009 and are reaching their useful life. The current models are no longer manufactured or sold by Motorola and will go to "best possible" support starting in 2018. Funding will allow for the purchase of a total of 85 new portable radios (2018-2020) that will be capable of operating on multiple bands and systems. It is anticipated that some of the replaced radios will be kept for spare parts and non-frontline use. Others will be traded in for credit or sold to non-public safety agencies for use.

2019 - 2023 Capital Improvements Program

PP181 Replacement Bicycles

This project provides funding for the purchase of police outfitted bicycles for the Police Bike Unit to replace several which have exceeded their useful life. Currently, 13 of the bicycles in Dublin's fleet are over the 7-year replacement recommendation. The International Police Manual Mountain Bike Association recommends replacing bikes every seven years. The Police Bike Unit is used for parades, special events, and routine patrol functions. Police bikes have lighter frames in order to carry or lift them over obstacles such as stairs and curbs. They are also subject to more wear-and-tear due to how they are utilized during firearms and suspect contact/apprehension.

Funding is programmed for this project in 2019.

PP183 Replacement/Upgrade Tasers

Dublin police officers have carried tasers since 2007. These tools have become the primary less-lethal weapon used, and are carried by every officer. The Police Department anticipates the need to replace every taser in its inventory in 2019. Originally, the useful life of the tasers was estimated to be 10 to 13 years. However, the Police department has seen an increasing number of failures with the equipment. Additionally, at the end of 2018, Taser International will not service the existing equipment.

Funding for the upgrade is programmed in 2019.

PP190 Replacement Datamasters

Funding provided in 2019 is for replacement of the existing breath alcohol testing equipment and the purchase of a spare so that there is no down-time if a unit needs to be repaired or re-calibrated. When a Datamaster fails, it takes up to a month to be serviced. The City's current machines are approximately 20 years old, and frequently go out of service. The current service contract for repairs expires in 2019.

PP191 Replacement Ballistic Shields

Funding is programmed in 2023 for the replacement of existing ballistic shields that have a 5 to 7 years' useful life. Ballistic shields are kept in the City's cruisers for deployment during an emergency response. The shields will meet their useful life in 2023 and will need replacement at that time.

PP192 Replacement Speed Trailers

Funding programmed in 2023 is to provide a speed trailer. The City has a continued need for responding to traffic issues. The Police Department have four trailers which are over 10 years old. These trailers have on-going maintenance issues. The current trailers are still serviceable, but are expected to need replacement in 2023.

2019 - 2023 Capital Improvements Program

POLICE

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

PP132 Automatic License Plate Readers (ALPR)

Funds programmed in 2019 provides for the additional purchase of automatic license plate readers for police cruisers. This has been a phased project since 2014. The funding in 2019 will allow for installment of ALPR's in all remaining frontline vehicles. The life cycle for these items is anticipated to be 10 years.

License plate readers are an automated tool installed on police cruisers that read license plates and compare them to a database of wanted and missing persons, amber alerts, stolen vehicles and homeland security alerts and notify the officer anytime there is a match. These systems scan as many as 10,000 plates per hour and greatly increase the possibility an alert will be found. The funding proposed is to phase in the system and install the units on select cruisers as they are changed out. Staff will also be working with other law enforcement agencies in the area to share the system and its costs.

PP193 Consoles for EOC Radio Room (additional)

Funding programmed in 2020 will provide for the addition of 2 new console work stations in the Police Communication Centers (Emergency Operations Center). With the current staffing and anticipated additional staffing in the next two years, it will be necessary to add the two new consoles. These consoles will allow additional personnel to work in order to raise the minimum staffing during busy shifts.

PP194 EOC Room Enhancements

Funding programmed in 2019 provides for enhancements to the Police radio room. Enhancements include overhead speakers, projectors and TV equipment replacement. These items were removed during the recent renovation due to code compliance issues. There will be a coordinated effort between the City's IT Department and the Police Department to replace those items.

PP195 Unmanned Aerial Vehicle (UAV)

Funding programmed in 2019 provides for an unmanned aerial vehicle (UAV) the equipment necessary to conduct high risk surveillance and search and rescue for the Police Department. UAV's are quickly becoming common place in the area of law enforcement across the country. This tool will allow officers to observe crime scenes, hazardous materials, and other vulnerable areas from the safety of a remote location. UAV's have also proven to be valuable in searching for missing persons and mapping crime and traffic crash scenes. The addition of this equipment in the Police

2019 - 2023 Capital Improvements Program

Department's inventory will improve the functionality and effectiveness in providing safety services.

PP196 Body Cameras and Mobile Video Systems

This project provides funding in 2019 for body cameras for all uniformed personnel and replacement of current cruiser camera systems to a compatible system that works with the body cameras. The Police Department deployed a limited number of body cameras in 2018 as part of research into the implementation of the equipment. It was found that the consolidation of body cameras and cruiser cameras into one compatible system would be beneficial. Funding provided would deploy body cameras to all uniformed personnel in 2019. This equipment's value is evident in its ability to record many encounters that would otherwise not be retained on video. The current cruiser camera systems will be replaced with compatible systems that work with body cameras. It is anticipated that the project will take two years to complete.

Note: This new technology is replacing and enhancing the current in-car camera system. Therefore, Project PP182 for In-Car Cameras has been removed and rolled into this new project.

PP197 Drug Disposal Incinerator

Funding in 2021 provides for the addition of an on-site incinerator for proper destruction and disposal of drugs, both collected and seized. With the increased use of the prescription drug drop-off box, and the addition of four neighborhood drug takeback days during the year, the need has arisen for the ability to destroy the drugs on-site in a proper and timely manner. The current disposal provider is the Delaware County Sheriff Department. The City has been informed that Delaware County will provide the service through 2020.

The Police Department intends to discuss partnering with the Hilliard Police Department, as well as other agencies on this purchase so that the incinerator could serve multiple agencies and costs could be shared.

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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UTILITIES - SANITARY SEWER SYSTEM

CAPITAL MAINTENANCE

ES071	Sewer Lining and Repair	0	1,500	0	1,500	0	1,500	0	3,000	1,500	4,500
ES191	Annual Sanitary Sewer Maintenance Program	0	225	225	250	250	250	250	1,225	250	1,475
ES122	Manhole Rehabilitations	0	0	300	0	300	0	300	900	300	1,200
10/9/2018	TOTAL	0	1,725	525	1,750	550	1,750	550	5,125	2,050	7,175

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ES174	Sewer Line Extensions - Areas 4A, 10C & 10D	0	225	655	0	0	0	0	655	0	655
ES175	Sewer Line Extensions - Areas 3A, 3B, 3C, 8A & 15	0	0	805	0	0	0	0	805	3,055	3,860
ES176	Sewer Line Extensions - Areas 2A, 2B & 2C	0	0	0	0	0	0	0	0	2,615	2,615
ES177	Sewer Line Extensions - Areas 8B & 8C	0	0	0	0	0	0	0	0	1,140	1,140
ES179	Deer Run Sewer Upsizing, group #1	0	415	80	2,920	0	0	0	3,000	0	3,000
ES178	Deer Run Sewer Upsizing, group #2	0	0	225	55	1,500	0	0	1,780	0	1,780
ES17A	Deer Run Sewer Upsizing - Dumfries Court	0	0	1,610	0	0	0	0	1,610	0	1,610
ES192	Sewer Line Extensions - Area 10A	0	0	0	0	0	0	0	0	1,095	1,095
ES193	Sewer Line Extensions - Area 9 & 10B	0	0	0	0	0	0	0	0	1,060	1,060
10/9/2018	TOTAL	0	640	3,375	2,975	1,500	0	0	7,850	8,965	16,815

2019-2023	TOTAL - SANITARY SEWERS	0	2,365	3,900	4,725	2,050	1,750	550	12,975	11,015	23,990
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2018-2022	TOTAL - SANITARY SEWERS	0	3,935	2,425	7,690	4,065	2,095	N/A
	\$\$ Difference	0	(1,570)	1,475	(2,965)	(2,015)	(345)	N/A
	% Difference	0.0%	-39.9%	60.8%	-38.6%	-49.6%	-16.5%	N/A



2019 - 2023 Capital Improvements Program

UTILITIES - SANITARY SEWER SYSTEM CAPITAL MAINTENANCE

ES071 Sewer Lining and Repair

The funds allocated will allow for the repair and lining of the sanitary sewer lines in Dublin. The lining of the City's clay & concrete pipe will reduce inflow and infiltration (I and I) of water in the sanitary sewer system. Sewer lining repairs protect the integrity of the pipe system and reduces the amount of I and I entering the system via the main lines.

Funding programmed in 2020 will continue the lining of the Deer Run and North Fork Indian Run sewer sheds comprising of nearly 32,410 linear feet of 8"-15" sanitary sewer, encompassing the following subdivision areas: Muirfield Village Sections 1, 23, and 36, Moors at Muirfield, Muirfield Greene, Lochslee Condominiums, Muirfield Square, Berkshire Commons, and Muirfield Association Office/ South Pool and River Forest.

Funding shown in year 2022 is provided to continue the work. Sanitary sewer mains will continue to be evaluated for lining beyond 2023. The funding source for this project will be from future debt issuance.

ES191 Annual Sanitary Sewer Maintenance Program

Funding provides for an annual allocation to maintain and repair sanitary sewer infrastructure including raising manholes and various other issues identified during inspections.

ES122 Manhole Rehabilitations

This project provides for the repair of sanitary sewer manholes in accordance with the "Director's Final Findings and Orders" issued by the Ohio Environmental Protection Agency (OEPA). This project provides for repairs to the integrity of the manholes and reduces the amount of inflow and infiltration I and I entering the system via the main lines.

Funding is programmed on a bi-annual cycle in years 2019, 2021, 2023, and will continue beyond 2023. Funding for this project will be from the Sewer Fund.



2019 - 2023 Capital Improvements Program

UTILITIES - SANITARY SEWER SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Sanitary Sewer Line Extensions

This project will systematically provide access to the areas of the City not currently on the public sanitary sewer system based on the priorities of City Council policy (adopted December 7, 2015), inspection data, and evaluation provided by the Franklin County Board of Health. The City's Administration is planning to conduct a water/sewer rate study sometime in late 2018 to early 2019. The study is to determine the rate structure that needs to be in place in order to provide sufficient funding for the maintenance of the City's existing systems into the future. The outcome of this analysis will provide information to determine the amount, if any, from the General Fund and/or Capital Improvement Tax Fund that will be needed to fund these extensions.

These projects will provide lift stations, force mains, and 8" & 10" public sanitary sewer utility extensions. These projects are funded from the Sewer Fund; however, an annual allocation from the General Fund will provide for partial funding, along with debt issuance.

ES174 Sewer Line Extensions – Areas 4A, 10C & 10D

Area 4A, 10C & 10D – Force main, lift stations and a proposed 8" sewer extension in the designated areas. Design and acquisition were programmed in 2018 with construction in 2019 with the Tuttle Crossing Boulevard and Avery Road Improvement Project. This project will provide 41 parcels access to sanitary sewer service.

Locations: Area 4A - River Knolls Subdivision (11 parcels) and 7049–7575 Riverside Drive (8 parcels); Area 10C – 5300–5474 Dublin Road (12 parcels); Area 10D – 5480– 5680 Dublin Road (10 parcels).

ES175 Sewer Line Extensions – Areas 3A, 3B, 3C, 8A & 15

Area 3A, 3B, 3C, 8A & 15 – Force main, lift station and 8" and 10" sewer extensions. Design and acquisition are programmed in 2019 with construction reflected beyond the five-year program period. This project will provide 108 access to sanitary sewer service.

Locations: Area 3A – 7591–7871 Riverside Drive (16 parcels), 7690-7778 Riverside Drive (7 parcels); Area 3B – 7879-8015 Riverside Drive (13 parcels), 7960-8000 Riverside Drive (3 parcels), 4545 and 4575 Summit View Road; Area 3C - Woodlands 1 & 2, Drexel Hills Terrace (40 parcels);



2019 - 2023 Capital Improvements Program

Area 8A – Avery Road/Cara Road/Cara Court (25 parcels); Area 15 – 7400-7422 Avery Road (2 parcels).

ES176 Sewer Line Extensions – Areas 2A, 2B & 2C

Area 2A, 2B & 2C - Force main, lift station and 8" and 10" sewer extensions. This project is reflected beyond the five-year program period. One hundred and fifty-seven (157) parcels will receive access to sanitary sewer service. O'Shaughnessy Hills lot configuration does not represent typical lot service.

Locations: Area 2A – 4315-4501 Summit View Road (9 parcels) and 4555 Summit View Road, O'Shaughnessy Hills (17 parcels) and 4424-4500 Summit View Road (5 parcels) and Blank Lot; Area 2B - Laura Hills – 8159-8449 Riverside Drive (16 parcels); Area 2C – O'Shaughnessy Hills (108 parcels).

ES177 Sewer Line Extensions – Areas 8B & 8C

Design and construction for Area 8B & 8C is reflected beyond the five-year program period.

Locations: Area 8B - 8" sanitary sewer extension at rear property lines of Wilcox Road properties - North and South of Rings Road, Area 8C - 8" sanitary sewer extension in Old Wilcox Rd. from North of Tuttle Crossing Blvd. to Wilcox Road.

ES179 Deer Run Sanitary Sewer Upsizing, Group #1

As identified in the Deer Run Sewer Modeling Report, this project provides funding for the installation of a new pump station near MH#3902, west of Dublin Road between Reserve Drive and Glenaire Drive, and installation of a new 12" force main from MH#3902 along Dublin Road to MH#2772, near the 7118 Dublin Road property. There were previous sanitary sewer overflow (SSO) events that prompted the modeling efforts of the Deer Run Sewer shed leading to this proposed improvement. The June 20th, 2016 rainfall event which created SSO and water-in-basement (WIB) events further necessitates the need to perform this improvement in the Deer Run sewer shed.

Site acquisition is programmed in 2019 and construction in 2020.

ES178 Deer Run Sanitary Sewer Upsizing, Group #2

This project provides funding for the proposed upsizing of sanitary sewer pipe from 12" to 15" at Muirfield Court into Muirfield Village Golf Course, and another upsizing of sanitary sewer pipe from 15" to 18" along the rear properties between Dunblane



2019 - 2023 Capital Improvements Program

Court and Crail Court. There were previous sanitary sewer overflow (SSO) events that prompted the modeling efforts of the Deer Run Sewer shed leading to this proposed improvement. The June 20th, 2016 rainfall event which created SSO and water-in-basement (WIB) events further necessitates the need to perform this improvement in the Deer Run sewer shed.

Design is programmed in 2019, site acquisition in 2020, and construction in 2021.

ES17A Deer Run Sanitary Sewer Upsizing – Dumfries Court

This project provides funding for installation of a sanitary sewer and a separate pump station and force main in Dumfries Court east (Carnoustie Drive area). There were previous sanitary sewer overflow (SSO) events that prompted the modeling efforts of the Deer Run Sewer shed leading to this proposed improvement. The June 20th, 2016 rainfall event which created SSO and water-in-basement (WIB) events further necessitates the need to perform this improvement in the Deer Run sewer shed. Four alternative options to have been reviewed and are currently being evaluated.

Project construction is programmed in 2019.

ES192 Sewer Line Extensions – Area 10A

This project provides for an 8" sanitary sewer extension to Thornhill Lane and Dublin Road. This will provide direct access to the public sanitary sewer system.

Design and construction is reflected beyond the five-year program period.

ES193 Sewer Line Extensions – Areas 9 & 10B

This project provides for public sanitary sewer utility extension to existing developed areas that need direct access to the public sanitary sewer system.

Locations: Area 9 - 8" sanitary sewer extension at Olde Dublin Woods Drive, Betonywood Place, Red Oak Lane, and Hirth Road. Area 10B – 8" sanitary sewer extension and lift station to serve Locust Hill Lane.

Design and construction is reflected beyond the five-year program period.

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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UTILITIES - STORMWATER MANAGEMENT

CAPITAL MAINTENANCE

AF191	Annual Stormwater Maintenance	0	315	575	575	575	575	575	2,875	585	3,460
AF192	Ditch Maintenance	0	0	0	0	100	0	100	200	100	300
10/9/2018	TOTAL	0	315	575	575	675	575	675	3,075	685	3,760

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

EF181	Rings Farm Stream Relocation	0	150	660	0	0	0	0	660	0	660
EF190	Allocation for Various Stormwater Improvements	0	250	250	250	250	250	250	1,250	250	1,500
10/9/2018	TOTAL	0	400	910	250	250	250	250	1,910	250	2,160

2019-2023	TOTAL - STORMWATER	0	715	1,485	825	925	825	925	4,985	935	5,920
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2018-2022	TOTAL - STORMWATER	0	725	795	1,335	755	905	N/A
	\$\$ Difference	0	(10)	690	(510)	170	(80)	N/A
	% Difference	0.0%	-1.4%	86.8%	-38.2%	22.5%	-8.8%	N/A



2019 - 2023 Capital Improvements Program

UTILITIES - STORMWATER MANAGEMENT CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the stormwater projects.

AF191 Annual Stormwater Maintenance

This project provides for annual funding of maintenance for the City's stormwater system as identified in the Stormwater Master Plan. This program was initiated in 2000 to maintain the stormwater management system, to convey stormwater, and prevent flooding. The funding is utilized to maintain and repair existing storm sewer lines, curb inlets, catch basins, man-made channels and other structures that discharge stormwater runoff. This is an important component of the City's efforts to meet National Pollutant Discharge Elimination System (NPDES) Phase II regulations. The annual allocations will be used to fund two projects: Inlet maintenance and miscellaneous maintenance on a task order basis.

Funding is allocated annually in the five-year program period to continue the repair of curb inlets in the storm structure maintenance program.

AF192 Ditch Maintenance

The ditch maintenance program was initiated in 2017. This project provides funding for maintenance of the City's roadside ditches and waterway systems. Funds will be utilized to maintain and repair existing ditches, man-made channels, and waterways that convey stormwater runoff. This is another important component of the City's efforts to meet National Pollutant Discharge Elimination System (NPDES) Phase II regulations.

Funding is programmed in the five-year program period in 2021 and 2023.



2019 - 2023 Capital Improvements Program

UTILITIES - STORMWATER MANAGEMENT CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

EF181 Rings Farm Stream Relocation

This project provides for the relocation of approximately 2,700 lineal feet of Cosgray Ditch. This project is located on a 72-acre parcel owned by the City, at 6600 Shier Rings Road. Relocating the stream will enable the parcel to be developed at a later date.

Funding was programmed in 2018 for permitting with the Army Corp of Engineers. Design and construction is programmed in 2019 to accommodate potential development.

EF190 Allocation for Various Stormwater Improvements

An annual funding allocation over the next five years has been programmed for various improvement needs identified in the Stormwater Master Plan completed by Camp, Dresser & McKee (CDM) (2009). Projects will be completed and prioritized as funding is available. The funds are utilized to maintain and repair existing storm sewers, curb inlets, catch basins, ditches, man-made channels and other structures that discharge stormwater runoff. This is an important component of the City's efforts to meet National Pollutant Discharge Elimination System (NPDES) Phase II regulations.

Projects listed in the five-year period may include Hirth Wolpert Creek Culvert Improvements; May Apple, Tamarisk Creek and Hawk's Nest Stormwater Improvements; Glencree Place Stormwater Improvements; Hawk's Nest Pond Wall Rehabilitation, Calvert Court Stormwater Improvements; Dublin Road and Donegal Cliffs Drive Stormwater Improvements; MacDuff Place Stormwater Improvements; Mill Road and Dublin Road Stormwater Improvements, and Riverside Drive Stormwater Improvements.

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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INFORMATION TECHNOLOGY

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AI191	Information Technology	0	900	900	900	900	900	900	4,500	0	4,500
AI192	Smart Cities Initiative	0	200	200	200	200	200	200	1,000	0	1,000
Fiber											
AI172	Connected Vehicles Systems Infrastructure	0	50	50	50	50	50	50	250	0	250
AI183	US33 COG Infrastructure	0	200	50	50	50	50	50	250	0	250
AI194	Fiber Optic Enhancements	0	445	120	120	120	120	120	600	0	600

10/9/2018

2019-2023	TOTAL	0	1,795	1,320	1,320	1,320	1,320	1,320	6,600	0	6,600
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2018-2022	TOTAL - INFO TECNOLOGY	0	1,795	1,545	1,495	1,495	1,495	N/A
	\$\$ Difference	0	0	(225)	(175)	(175)	(175)	N/A
	% Difference	0.0%	0.0%	-14.6%	-11.7%	-11.7%	-11.7%	N/A



2019 - 2023 Capital Improvements Program

INFORMATION TECHNOLOGY CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Note: The Capital Improvement Tax Fund is the source of funding for all of the IT projects unless otherwise noted.

AI191 Computer Hardware/Software (General IT)

Technology projects include citywide shared services upgrades, replacement and additions to the existing IT infrastructure, GIS/Data systems and security technologies. Also included in Citywide projects are client device procurements, collaborative technology upgrades and delivery of enterprise software solutions. Project initiatives across several departments are noted which support the enhancement of City of Dublin operations and help realize the benefits of new technologies. Significant new projects, with SaaS options include: Kronos upgrade and Web/RecTRac upgrade. Also included in the projects are the estimated cost for IT to facilitate the move from the current City Hall facility to 5555 Perimeter Drive (Dublin campus) and establish network connectivity. Also included is the cost of implementation of a Service Management System (aka 311).

These technology upgrades are necessary to secure the City's network, protect sensitive data, provide for scalability and ensure the availability of network operations. Technology projects also support maintenance and enhancement needs, account for the expansion of resources and emerging technologies, and the drive for efficiency and effectiveness of City operations. Projects are submitted in alignment with department leaders and the City's common goals. The ability to maintain, grow and transform the City's technology environment is crucial to meeting the needs and expectations of the community and staff.

The annual requests reflect the five-year Technology Strategic Plan that has been developed by the Department of IT. Adjustments to the five-year plan have been made to more accurately reflect project costs and identify opportunities for potential cost reductions.

The funding source for most of the projects is the Capital Improvements Tax Fund, however, the Sewer Fund and the Hotel/Motel Tax Fund will be the funding source for projects related to those funds (as applicable).



2019 - 2023 Capital Improvements Program

Information Technology 5 Year Budget Plan 2019-2023 (Project #AI191)

Dept / Div	2019	
Citywide	Network Comm & Management	\$150,000
	Enterprise Software Licensing	\$30,000
	Security Technologies	\$30,000
	Enterprise Storage Systems	\$65,000
	Network Server Upgrades	\$35,000
	Client PC & Monitor New/Refresh	\$85,000
	Mobile Devices New/Refresh	\$25,000
	Conference Room Equipment	\$10,000
	Misc Hardware/Software	\$35,000
	GIS/Data Warehousing	\$60,000
	GIS/Data Infrastructure	\$10,000
	GIS/Data Enterprise Software	\$25,000
OCM	5555 Perimeter Move/Transition	\$77,000
Court Services	Records Management Upgrade	\$5,000
CPI	CPI Technology Platforms	\$10,000
HR	HR Management System	\$5,000
	Cyber Security Training Technology	\$20,000
Building Standards	Accela Kiosk @ Service Desk	\$15,000
Planning	Electronic Plan Review Upgrade	\$10,000
Finance	ERP Enhancements	\$5,000
	Kronos Enhancements/Upgrade	\$32,000
Police	Records/Dispatch/Mobile Upgrade	\$25,000
	Mobile Computer Upgrades	\$30,000
	Cruiser Technology Enhancement	\$20,000
	Crime Analysis Mapping/GPS	\$25,000
Facilities	Security Camera Upgrades	\$15,000
	Renovation Requirements	\$5,000
Fleet	Fleet/Fuel System Enhancement	\$10,000
	Faster Mobile Device Enhancement	\$20,000
Public Works	Customer Service Management	\$25,000
Engineering	CAD/ArcView Enhancements	\$12,000
	Engineering Laptops	\$15,000
Events	Coffman House Barn WiFi (DIF2)	\$15,000
Parks	Parks Staff Mobilization	\$8,000
Recreation	WebTrac/RecTrac Upgrade	\$45,000
	Technology Enhancements	\$10,000
General IT Total		\$1,019,000
Budget Adjustment		(\$119,000)
Net Budget		\$900,000



2019 - 2023 Capital Improvements Program

Information Technology 5 Year Budget Plan 2019-2023 (Project #AI191)

Dept / Div	2020	2021
Citywide	Network Comm & Management	\$130,000
	Enterprise Software Licensing	\$40,000
	Security Technologies	\$45,000
	Enterprise Storage Systems	\$80,000
	Network Server Upgrades	\$35,000
	Client PC & Monitor New/Refresh	\$90,000
	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$15,000
	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$70,000
	GIS/Data Infrastructure	\$15,000
	GIS/Data Enterprise Software	\$25,000
Court Services	Court Technology Enhancements	\$5,000
CPI	CPI Technology Platforms	\$10,000
HR		Training Area Enhancements
Building Standards	Eplan Enhancements	\$10,000
Planning	Eplan Utilization/Enhancements	\$15,000
Finance		Income Tax Upgrades
Police	Records/Dispatch/Mobile Upgrades	\$25,000
	Mobile Computer Upgrades	\$50,000
	Cruiser Technology Enhancements	\$30,000
	Dispatching Records Interfacing	\$40,000
Streets & Utilities	Sewer Inspection Software Upgrade **	\$10,000
Facilities	Security Camera Upgrades	\$10,000
	Renovation Requirements	\$10,000
Fleet	Fleet/Fuel System Enhancements	\$20,000
Public Works		Customer Service Mgt Upgrades
Engineering	Eplan Utilization/Enhancements	\$15,000
		Signal Timing Database Enhancement
		Eplan Utilization/Enhancements
		Plotter
Events		Events Technology Upgrades ***
Parks	CIMS Enhancements	\$10,000
Recreation	Technology Enhancements	\$8,000
	RecTrac Additional Licenses	\$12,000
General IT Total		\$900,000
Budget Adjustment		
Net Budget		\$900,000

** Funding will be from the Sewer Fund.

*** Funding will be from the Hotel/Motel Tax Fund.



2019 - 2023 Capital Improvements Program

Information Technology 5 Year Budget Plan 2019-2023 (Project #AI191)

Dept / Div	2022		2023	
Citywide	Network Comm & Management	\$130,000	Network Comm & Management	\$130,000
	Enterprise Software Licensing	\$50,000	Enterprise Software Licensing	\$45,000
	Security Technologies	\$50,000	Security Technologies	\$50,000
	Enterprise Storage Systems	\$50,000	Enterprise Storage Systems	\$60,000
	Network Server Upgrades	\$40,000	Network Server Upgrades	\$40,000
	Client PC & Monitor New/Refresh	\$90,000	Client PC & Monitor New/Refresh	\$90,000
	Mobile Devices New/Refresh	\$50,000	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$10,000	Conference Room Equipment	\$10,000
	Misc Hardware/Software	\$25,000	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$75,000	GIS/Data Warehousing	\$75,000
	GIS/Data Infrastructure	\$25,000	GIS/Data Infrastructure	\$25,000
	GIS/Data Enterprise Software	\$20,000	GIS/Data Enterprise Software	\$20,000
Court Services	Court Technology Enhancements	\$3,000		
CPI	CPI Technology Platforms	\$12,000	CPI Technology Platforms	\$12,000
HR	HR Management System Upgrades	\$10,000	Training Technology Enhancements	\$10,000
Building Standards			Accela Systems Enhancements	\$25,000
Planning	Accela Systems Enhancements	\$25,000		
	Eplan Utilization/Enhancements	\$10,000		
Finance	ERP Enhancements	\$10,000		
	Time & Attendance Upgrades	\$10,000		
Police	Records/Dispatch/Mobile Upgrades	\$30,000	Records/Dispatch/Mobile Upgrades	\$30,000
	Mobile Computer Upgrades	\$60,000	Mobile Computer Upgrades	\$60,000
	Cruiser Technology Enhancements	\$30,000	Cruiser Technology Enhancements	\$30,000
Facilities	Security Camera Upgrades	\$10,000	Security Camera Upgrades	\$10,000
	Renovation Requirements	\$10,000	Renovation Requirements	\$8,000
Fleet	Fleet/Fuel System Enhancements	\$15,000	Fleet/Fuel System Enhancements	\$10,000
Public Works			Customer Service Mgt Upgrades	\$10,000
Engineering	Signal Timing Database Enhancements	\$10,000	Signal Timing Database Enhancement	\$10,000
	Eplan Utilization/Enhancements	\$10,000	CAD/ArcView Enhancements	\$15,000
			Eplan Utilization/Enhancements	\$10,000
Events	Events Technology Upgrades ***	\$10,000	Events Technology Upgrades ***	\$10,000
Recreation	Technology Enhancements	\$10,000	WebTrac/RecTrac Upgrade	\$20,000
	Web/RecTrac Licenses	\$10,000	Technology Enhancements	\$10,000
General IT Total		\$900,000		\$900,000
Budget Adjustment				
Net Budget		\$900,000		\$900,000

*** Funding will be from the Hotel/Motel Tax Fund.



2019 - 2023 Capital Improvements Program

AI192 Smart Cities Initiative - Dublin Smart and Connected Community

The City of Dublin has become a focal point in Central Ohio for Smart City experimentation, Smart Mobility testing, and Smart Transportation development. The city has initiated projects around Smart Parking, IoT, Artificial Intelligence, Broadband, Big Data, Predictive Analytics, Data Visualization, Cybersecurity, Unmanned Aerial Vehicles, Connected and Autonomous Vehicles. The City administration is transitioning from a traditional work environment to a digital organizational model. The City of Dublin needs appropriate facilities, demonstration and display technology to manage, grow, display and educate both staff and the community about these developments. The experimentation, testing, and implementation of these technologies serves not only to provide access to new tools and data, but also as an economic development to attract innovative businesses to relocate to Dublin.

The City seeks to establish initiatives to seed and grow these technology initiatives, attract attention from industry and the public, enhance our reputation as the technology hub of Central Ohio, and compete with similar projects in the region. Funds will be invested in equipment, displays, visualizations, applications, infrastructure, enterprise systems, consulting, design, and facilities. Projects include:

- Dublin Smart Community Connect - deploying sensors, cameras, wireless signal, devices, software to streets and neighborhoods.
- Smart Parking - using sensors to gather, analyze and communicate data on parking resources and patterns.
- Wireless Services - providing network services to the public and businesses.
- Data, Analytics, and Artificial Intelligence/Machine Learning.
- Public facing facilities to promote data access, transparency, and interactivity, including apps, web, and displays.

Funding allocated in the CIP will be used for the capital investment, design, and implementation services needed to establish the display technologies and necessary facilities. Operating expenditures will be funded through the City's General Fund and established as part of the 2019 Operating Budget.



2019 - 2023 Capital Improvements Program

Fiber Projects:

AI172 **Connected Vehicles Systems Infrastructure**

An annual funding allocation has been programmed to provide for wireless vehicle communication applications and equipment for short-range communication (DSRC) technology for use in vehicle-to-vehicle communication and vehicle-to-vehicle roadside communication. This includes funding necessary to place devices inside fleet vehicles and to implement systems within traffic engineering infrastructure, such as cameras, sensors, fiber, and wireless networks allowing vehicles to communicate with each other and with traffic systems. These funds also count towards matching requirements allowing the majority of project funds to be provided by a Federal grant for Connected Vehicles research.

AI183 **US33 COG Infrastructure**

This project funding has been programmed to implement technologies for connected vehicles systems inside the City consistent with Smart Cities Mobility research being conducted by Battelle and the OSU Center for Automotive Research.

The first phase of the project is along the US 33 corridor from Dublin to East Liberty, Ohio, 35 miles of four-lane, limited access highway. This section of US 33 is called the "The 33 Smart Mobility Corridor," and will be equipped by the Ohio Department of Transportation (ODOT) with high-capacity fiber optic cable to instantaneously link researchers and traffic monitors with data from embedded and wireless sensors along the roadway. These links will allow premier automotive research and testing of smart transportation technologies, on a highway that carries up to 50,000 vehicles per day through rural and urban settings in a full range of weather conditions. These connections will give automobile researchers the ability to collect data as they safely test smart transportation technologies; including autonomous and connected vehicles in all weather conditions. This data will also provide more frequent and accurate traffic counts, weather and surface condition monitoring, and incident management improvements.

Funding is programmed annually for the City's share of this project. Partners in this project include ODOT, Honda R&D Americas, the Transportation Research Center at East Liberty and The Ohio State University's Center for Automotive Research and as well as local governments (the COG) – the City of Dublin, City of Marysville and Union County.



2019 - 2023 Capital Improvements Program

AI194 Fiber Optic Enhancements

Funding has been allocated annually in the five-year period based on a forecasted need to continually update, extend and enhance the City's fiber optic system. This includes system extensions, laterals, data center enhancements and connectivity, as well as infrastructure for traffic engineering throughout the Dublin system.

CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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TRANSPORTATION - BICYCLES AND PEDESTRIAN

CAPITAL MAINTENANCE

AT193	Annual Shared Use Path Maintenance	0	450	380	380	380	380	380	1,900	0	1,900
AT196	Annual Sidewalk Program	0	250	250	250	250	250	250	1,250	0	1,250
AT179	Historic Dublin Brick Sidewalk Maintenance	0	0	60	60	60	60	60	300	0	300
10/9/2018	TOTAL	0	700	690	690	690	690	690	3,450	0	3,450

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ET171	Glick Road (section 3) SUP	0	10	375	0	0	0	0	375	0	375
ET16L	Perimeter Drive: Avery-Muirfield to Holt Road (TIF) Sidewalk	79	0	0	0	0	350	0	350	0	350
ET16M	Shier Rings Road: Eiterman to Cosgray Shared-use Path	0	0	0	0	0	0	35	35	375	410
ET16J	Concord Road Shared-Use Path	79	50	50	0	0	0	0	50	0	50
ET172	Riverside Drive East Shared-Use Path, section 1	0	0	110	0	1,085	0	0	1,195	0	1,195
ET173	Riverside Drive East Shared-Use Path, section 2	0	0	0	0	0	0	0	0	710	710
ET174	Riverside Drive East Shared-Use Path, section 3	0	0	0	0	0	0	0	0	925	925
ET175	Dublin Center Drive Shared-Use Path (TIF)	0	0	0	0	0	20	25	45	150	195
ET179	Summit View Road Shared-Use Path	0	0	0	0	0	0	0	0	480	480
ET176	Avery Road Sidewalk Connections (Hyland Drive to Tara Hill)	0	0	0	15	77	0	0	92	310	402
ET177	Wedgewood Hills Park Shared-Use Path	0	0	0	0	0	0	0	0	260	260
ET178	Wilcox Road Shared-Use Path (Northcliff to Heather Glen Blvd and Wilcox Place to Shier Rings Road)	0	0	0	35	160	0	0	195	430	625
ET182	Brand Road Shared-Use Path, Townsend Dr. to Avery Road	0	0	0	0	0	0	0	0	710	710
ET183	Dublin Road Shared-Use Path, Frantz Road to Limestone Ridge Drive	0	0	0	0	0	0	0	0	2,710	2,710
ET190	Shannon Park Sidewalk Improvements	0	0	0	0	0	0	0	0	510	510
10/9/2018	TOTAL	158	60	535	50	1,322	370	60	2,337	7,570	9,907

2019-2023	TOTAL - BICYCLES AND PEDESTRIAN	158	760	1,225	740	2,012	1,060	750	5,787	7,570	13,357
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2018-2022	TOTAL - BICYCLES AND PEDESTRIAN	0	1,085	1,220	1,435	1,890	770	N/A
	\$ Difference	0	(325)	5	(695)	122	290	N/A
	% Difference	0.0%	-30.0%	0.4%	-48.4%	6.5%	37.7%	N/A

2019 - 2023 Capital Improvements Program

TRANSPORTATION – BICYCLES AND PEDESTRIAN CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the bicycle and pedestrian projects unless otherwise noted.

AT193 Annual Shared-Use Path Maintenance

Funding for this project includes an annual allocation for crack sealing and sealcoating of the City's shared-use paths along with funding to replace or overlay portions of the shared-use paths. Preventive maintenance activities will extend the life of the path system.

The Infrastructure Asset Management work unit inspects the shared-use paths annually. There are currently almost 143.7 miles of public bike facilities within the Dublin corporation limits not including the private Muirfield Association path system. The system is comprised of shared-use paths, bike lanes, pedestrian connectors, pedestrian trails, sharrows, and street crossings. Shared-use paths comprise 81% of the system. In order to create a comprehensive maintenance plan for the bikepath system, the entire system was inventoried and inspected, and a condition score was calculated for each path segment. In addition to generating the condition score, the inspection also produced recommended repairs. The current overall average condition of the shared-use paths is 80/100 with a goal of an average 70 rating citywide. In addition, there is a goal of a minimum rating of 50 for any path.

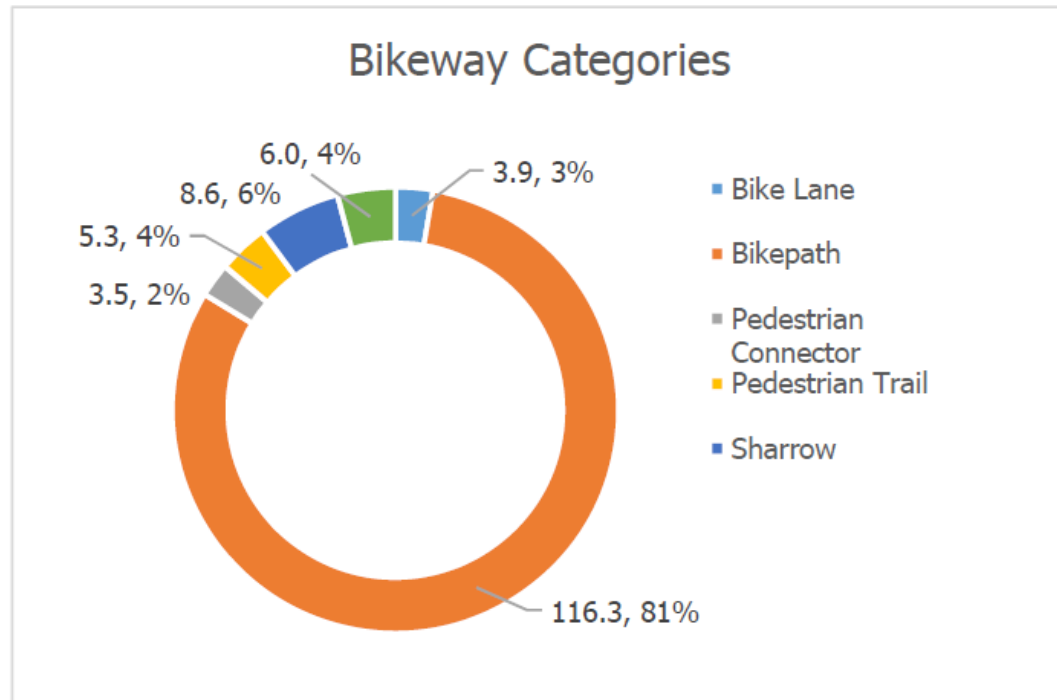
Preventative maintenance activities for these paths include crack sealing, seal coating, and resurfacing.

A comprehensive work plan for shared-use path maintenance is on file in the Public Works Department.

Total Miles of Bikeway System **143.7**

	2018		Goal
Average Condition Score	67.9	>	70
Miles Below Poor Condition	7.6	=	0

2019 - 2023 Capital Improvements Program



AT196 Annual Sidewalk Program

Funding for this project provides for sidewalk maintenance within the City limits through replacement and shaving methods thus reducing trip hazards and making Dublin a more walkable community.

The responsibility of sidewalk maintenance has long been a subject of discussion for City Council and staff. In the spring of 2017, Staff performed an updated citywide sidewalk condition assessment. Dublin's sidewalk network consists of 191 miles of sidewalk. The vast majority of the network is concrete; however, there is a small area of paver construction sidewalks in the Muirfield area, a small area of brick sidewalks in Historic Dublin, and several locations of experimental rubber sidewalks.

Inspections were performed to determine types of repairs needed the quantity of repairs, as well as categorizing those repairs by the observed cause of the damage. The method of repair was divided into two categories: sidewalk shaving and sidewalk replacement. The causes were broken into three categories:

1. Damage due to street tree roots (trees in the tree lawn area between the street and sidewalk)
2. Damage due to public city utility lines (sunken, broken, or shifted panels due to a buried public City utility line)
3. Other (raised, sunken, cracked, spalled, or otherwise damaged sidewalks due to owner-placed trees or no obvious reason)

2019 - 2023 Capital Improvements Program

This information was used to develop preliminary estimates for maintenance of sidewalk panels in need of repair. The total estimated cost to repair all sidewalks in need of repair citywide, regardless of cause, is between \$2,500,000 and \$3,000,000. The estimated cost to repair sidewalks in need of repair due to street tree roots is between \$1,400,000 and \$1,700,000. The estimated cost to repair sidewalks in need of repair due to City utility lines is between \$150,000 and \$200,000.

A comprehensive sidewalk work plan was completed, and is on file with the Public Works Department.

The annual allocation (on average) has been increased from prior years in order to provide for additional repairs (through either shaving or replacement) of deficient sidewalks.

AT179 Historic Dublin Brick Sidewalk Maintenance

This project provides an annual allocation to perform a high pressure power wash, reset low spots, replace chipped/broken bricks, clean away vegetation along the edges, re-sand the joints of the existing brick sidewalks, and expand brickwork from existing walk to curb line where practical throughout the District. There is approximately 36,000 square feet of brick sidewalk in the District. The areas of focus will be south and north High Street, Bridge Street, Mill Lane, "Frog" Plaza, behind Old Dublin Town Center 1 (ODTC 1), Darby Street and the walkway between N. High Street and Darby on the north side of Tucci's Restaurant. Similar work was done on the brick walkway between the new shared-use path on Dublin Road between the end of the asphalt path and Waterford Drive and has greatly improved the look of the sidewalk.

2019 - 2023 Capital Improvements Program

TRANSPORTATION – BICYCLES AND PEDESTRIAN CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ET171 **Glick Road Shared-Use Path, section 3**

This project provides funding for the construction of 2,200 feet of shared-use path on the south side of Glick Road between Carnoustie Drive and Muirkirk Drive. The project includes a prefabricated bridge over Deer Run.

Site acquisition is programmed in 2018 with construction, landscaping and utility relocation programmed in 2019. Funding for landscaping covers the replacement of trees removed by the project. Approximately 16 trees will be replaced as part of this project.

ET16L **Perimeter Drive: Avery-Muirfield to Holt Road Sidewalk**

This project constructs 2,500 feet of five-foot sidewalk along the north side of Perimeter Drive. This connection will provide safe pedestrian access along the north side of Perimeter Drive. An eight-foot asphalt path alignment was reviewed, but it was determined that it would require removal of too many mature trees. Additionally, an eight-foot asphalt path already exists on the south side of Perimeter Drive.

Site acquisition, construction, landscaping and utility relocation is programmed in 2022. Funding for the project will be from the Perimeter Center TIF Fund.

ET16M **Shier Rings Road Shared-Use Path**

This project will design and construct approximately 2,175 feet of eight-foot asphalt shared use path along Shier Rings Road. The project is located on the south side of Shier Rings Road between Cosgray Road and just west of Eiterman Road.

Design is programmed for 2023 and construction is reflected beyond the five-year program period, and will be re-evaluated as development occurs.

ET16J **Concord Road Shared-Use Path**

This project provides for construction of a shared-use path connection from Glick Road north to Eli Pinney Elementary School (which is outside of the City's jurisdiction). Residents in the area have requested this connection. Staff is discussing the path alignment and funding participation with Delaware County and Concord Township, as only a portion of the path is within the Dublin Corporate Limits. In 2017, Dublin constructed the first phase of the path from the tunnel at Glick Road to St. Boswell Court.

Funding programmed in 2019 is an allowance for the Dublin contribution to Concord Township's project to complete the connection to Eli Penney Elementary School.

2019 - 2023 Capital Improvements Program

ET172 Riverside Drive East Shared-Use Path, Section 1

This project provides for funding the construction of 3,000 feet of eight-foot asphalt shared use path on the east side of Riverside Drive between Emerald Parkway and the existing path at the southern edge of Riverside Woods.

Design for this section of the project is programmed in 2019 while site acquisition and construction is programmed in 2021.

ET173 Riverside Drive East Shared-Use Path, Section 2

This project provides for funding the construction of 1,400 feet of eight-foot asphalt shared use path on the east side of Riverside Drive between Tonti Drive and the existing path at the southern edge of Wyandotte Woods.

Design, site acquisition and construction is reflected beyond the five-year program period.

ET174 Riverside Drive East Shared-Use Path, Section 3

This project provides for funding the construction of 3,525 feet of eight-foot asphalt shared use path on the east side of Riverside Drive between Arrowhead Drive and the northern corporation limit (2,575 feet) and will tie into the path in Wedgewood Hills Park (750 feet).

Design, site acquisition and construction is reflected beyond the five-year program period.

ET175 Dublin Center Drive Shared-Use Path

This project provides for funding the construction of 618 feet of eight-foot asphalt shared use path on Dublin Center Drive between Stoneridge land and West Dublin-Granville Road.

Design is programmed in 2022, site acquisition in 2023 and construction is reflected beyond the five-year program period. The Shamrock Crossing TIF will be used to fund this project.

ET179 Summit View Road Shared-Use Path

This project provides for the construction of 1,150 feet of eight-foot asphalt shared use path on the north side of Summit View Road between Wedgewood Hills Park and Campden Lake Boulevard, and for planting approximately 20 street trees.

The project is reflected beyond the five-year program period.

2019 - 2023 Capital Improvements Program

ET176 Avery Road Sidewalk Connections (Hyland Drive to Tara Hill Drive)

This project provides for funding construction of pedestrian route connections along Avery Road. This project has been requested by the residents in the area to facilitate connectivity of the sidewalk system, and to correct missing sidewalk connections along the east side of Avery Road from Hyland Drive to Tara Hill (~340 LF). Project programming estimates includes a 10% contingency and allocation for utility relocation for possible pole conflicts with alignment.

Design and utility relocation is programmed in 2020 with construction programmed in 2021. Funds reflected beyond the five-year program period are for two additional locations: Tara Hill to Manteo Drive (~630 LF), and St Mel Court to Avery Road Park south lot area (500 LF). These projects will be re-evaluated as funding becomes available.

ET177 Wedgewood Hills Park Shared-Use Path

This project provides for the construction of 1,235 feet of eight-foot asphalt shared-use path in Wedgewood Hills Park, on the north side of Summit View Road. This project provides additional connectivity in the shared use path system.

Design and construction is reflected beyond the five-year program period.

ET178 Wilcox Road Shared-Use Path

This project provides for funding the construction of 1,070 feet of eight-foot asphalt shared use path on Wilcox Road between Northcliff and Heather Glen Blvd. A crossing will be built at Lothian. Design is programmed in 2020, with construction funded in 2021.

The subsequent phase to the project will provide for approximately 720 feet of eight-foot asphalt pathway along the west side of Wilcox Road from Wilcox Place to Shier Rings Road. Included in this project is a culvert extension to accommodate the path. Funding for this portion of the project is reflected beyond the five-year program period.

ET182 Brand Road Shared-Use Path, Townsend Drive to Avery Road

This project provides funding to design and construct approximately 1,390 feet of eight-foot asphalt share use path along Brand Road. The shared use path is planned on the south side of Brand Road between Townsend Drive and Avery Road.

This connection will provide safe pedestrian access along Brand Road and connect to the overall path system. Design and construction is reflected beyond the five-year program period.

2019 - 2023 Capital Improvements Program

ET183 Dublin Road Shared-Use Path, Frantz Road to Limestone Ridge Drive

This project provides for design and construction of approximately 2,775 feet of 8-foot asphalt shared use path along Dublin Road. The shared use path is planned on the west side of Dublin Road between Frantz Road and Limestone Ridge Drive. This connection will provide safe pedestrian access along Dublin Road and connect to the overall path system.

Design and construction is reflected beyond the five-year program period. Timing for the project may be re-evaluated if partnership funding from adjacent jurisdictions or MORPC grants can be obtained.

ET190 Shannon Park Sidewalk Improvements

This project provides for the installation of sidewalks along four streets in the Shannon Park subdivision: Gullway Bay Drive, Guinness Court, McGinty Court, and Valley Down Road/Shannon Park Drive. Residents are expected to donate right-of-entries, and/or easements if required for the project.

Design and construction is reflected beyond the five-year period.

CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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TRANSPORTATION - BRIDGES AND CULVERTS

CAPITAL MAINTENANCE

AT19C	Annual Vehicular Bridge Maintenance	0	305	745	745	745	745	745	3,725	0	3,725
AT198	Annual Pedestrian Tunnel Maintenance	0	475	440	0	240	0	475	1,155	0	1,155
AT19B	Annual Concrete Sealing Maintenance	0	23	70	0	70	0	70	210	0	210
AT19D	Annual Culvert Maintenance	0	0	60	60	60	60	60	300	0	300
AT19H	Annual Pedestrian Bridge Maintenance	0	0	40	20	25	25	20	130	0	130
10/9/2018	TOTAL	0	803	1,355	825	1,140	830	1,370	5,520	0	5,520

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

GR132	Scioto River Pedestrian Bridge	9,112	18,098	0	0	0	0	0	0	0	0
ET16B	John Shields Parkway Bridge	176	0	0	0	0	0	0	0	36,050	36,050
10/9/2018	TOTAL	9,288	18,098	0	0	0	0	0	0	36,050	36,050

2019-2023	TOTAL - BRIDGES AND CULVERTS	9,288	18,901	1,355	825	1,140	830	1,370	5,520	36,050	41,570
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2018-2022	TOTAL - BRIDGES AND CULVERTS	0	3,580	1,195	1,255	905	905	N/A
	\$\$ Difference	0	15,321	160	(430)	235	(75)	N/A
	% Difference	0.0%	428.0%	13.4%	-34.3%	26.0%	-8.3%	N/A

2019 - 2023 Capital Improvements Program

TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL MAINTENANCE

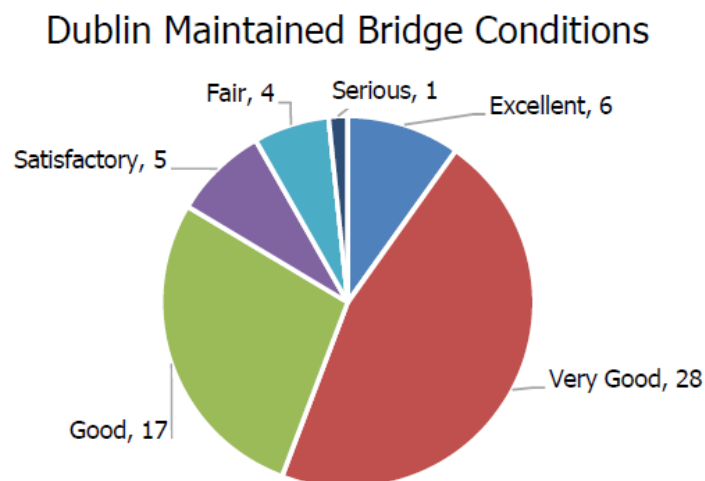
AT19C Annual Vehicular Bridge Maintenance

This project provides annual funding for vehicular bridge maintenance. By definition of the Ohio Revised Code, there are currently 91 vehicular bridges within Dublin corporation limits. Of those, City of Dublin is fully responsible for the maintenance and inspection of 53 bridges and responsible for the routine maintenance of eight bridges. The remaining bridges are maintained and inspected by the respective Counties or ODOT. The bridge inventory is on-file in the Public Works Department. The most recent inspections were performed in 2017 by the Franklin County Engineer office. Inspections will begin again prior to year end 2018.

Preventive maintenance tasks are deck overlay, railing repair or replacement, replace superstructure, sealing, deck patching, and replace joints. Preventive maintenance is key to extending the life of the City's bridges. Some critical preventive maintenance tasks include: deck sealing, joint cleaning, deck sweeping, cleaning drainage system, and cleaning and resetting the rockers. Many of these preventive maintenance tasks are able to be completed by City staffed maintenance crews; therefore, no annual CIP funds are budgeted for this purpose.

A comprehensive Work Plan for Vehicular Bridge Maintenance, including condition scores is on-file in the Public Works Department.

Total Number of Bridges in Dublin	91
Total Deck Area Inspected (sf)	137,668
Total Deck Area Maintained (sf)	227,032



2019 - 2023 Capital Improvements Program

AT198 **Annual Pedestrian Tunnel Maintenance**

This project provides annual funding for pedestrian tunnel maintenance. There are currently 31 pedestrian tunnels within Dublin corporation limits. Of those, 14 meet the Ohio Revised Code's definition of a bridge and are inventoried, and inspected as bridges with the maintenance programmed as part of the Annual Bridge Maintenance 2018 project (AT18C). The remaining 17 pedestrian tunnels are included in this work plan. 14 of those tunnels are part of the Muirfield Association's path system and the remaining three tunnels are part of the Muirfield Country Club's path system. The City is responsible for the maintenance, repair, and replacement of all of these tunnels since they are an integral part of the City's roadway structure and they are located in the public right-of-way.

Typical maintenance work tasks included in this project are pipe lining, replacing stone facing on headwalls, removing and replacing headwalls, replacing guardrails, and patching corroded areas. Preventive maintenance for these structures include: keeping the path surface free of debris and water particularly at the interface of the path and pipe, keeping the concrete joints sealed, and addressing any erosion.



Typical headwall to be replaced and made vertical

A comprehensive work plan for Pedestrian Tunnel Maintenance, including condition scores is on-file in the Public Works Department. The work plan is based on the most recent inspection data and defines the work planned for each tunnel in order to meet the average condition goal of 80 which equates to "very good." The current average

2019 - 2023 Capital Improvements Program

rating for all tunnels is 82.8. Tunnel maintenance is programmed for 2019, 2021, and 2023.

AT19B Annual Concrete Sealing Maintenance

This project provides annual funding for the sealing of concrete where the sealer has deteriorated or the concrete has aged and needs refreshed but is otherwise in good condition. Concrete will be sealed with an epoxy urethane or a silane type sealer to provide a clean look and offer protection from weathering. Areas considered for sealing include barrier walls and bridge abutments. Sealing these concrete surfaces offers both aesthetic and preventive maintenance benefits to the structure being sealed. Concrete surfaces can also be sealed to eliminate graffiti.

Funding is programmed for this work on a bi-annual basis in 2019, 2021, and 2023.

AT19D Annual Culvert Maintenance

This project provides annual funding for culvert maintenance and replacement. By definition of the Ohio Revised Code, City of Dublin is fully responsible for the maintenance of all culverts under public roadways within the city. Inspections were performed on all City of Dublin maintained culverts in the summer of 2017. There are currently 65 culverts within City of Dublin's corporation limits, of which 54 are maintained by the City of Dublin and the remaining 11 are maintained by ODOT.

Preventive maintenance activities for these structures include: keeping the culvert free of debris and addressing any erosion at the headwalls.

Number of Dublin maintained culverts	54
Total length (ft) of Dublin culverts	5,654

A comprehensive work plan for Culvert Maintenance, including condition scores is on-file in the Public Works Department.

Maintenance and replacement of the City's culverts are important to maintain storm water flow as well as guarantee the safety of the public using these structures.

AT19H Annual Pedestrian Bridge Maintenance

This project provides funding for pedestrian bridge maintenance. There are currently 64 pedestrian bridges within the Dublin corporate limits. The City is fully responsible for the maintenance and inspection of 39 of these bridges. The remaining bridges are maintained by private entities. All pedestrian bridges within the City of Dublin are inspected annually by staff.

2019 - 2023 Capital Improvements Program

A comprehensive work plan for Pedestrian Bridge Maintenance, including condition scores is on-file in the Public Works Department.

Year / Work / Bridge	Number	Sum of Deck Area	Construction Estimate
2019	3	809	\$33,000
Redeck & Railing	1	403	\$16,000
Muirfield Dr & Tullymore Dr	1	403	\$16,000
Replace	1	177	\$14,000
Near park on Macken Ct	1	177	\$14,000
Substructure Repair	1	229	\$3,000
Avery Rd E	1	229	\$3,000
2020	2	606	\$17,000
Redeck & Railing	1	303	\$13,000
Behind retirement village	1	303	\$13,000
Railing	1	303	\$4,000
Bikepath near New Grange Dr	1	303	\$4,000
2021	1	454	\$20,000
Redeck & Railing	1	454	\$20,000
Behind Caplestone	1	454	\$20,000
2022	1	260	\$24,000
Replace	1	260	\$24,000
Corazon	1	260	\$24,000
Grand Total	7	2,128	\$94,000

Note: Design cost and right-of-way acquisition is not included in amounts in the table above.

Estimated Costs and Work Per Year

Year	Number Projects	Deck Area (sf)	Const. Estimate	Design Estimate	R/W & Util. Estimate	Total Estimate
2019	3	809	\$33,000	\$3,000	\$0	\$36,000
2020	2	606	\$17,000	\$3,000	\$0	\$20,000
2021	1	454	\$20,000	\$4,000	\$0	\$24,000
2022	1	260	\$24,000	\$0	\$0	\$24,000
2023	0	0	\$0	\$0	\$0	\$0

Some critical preventive maintenance tasks include: keeping bridge free of debris and painting and staining wood. These type of tasks are able to be completed by City staffed maintenance crews.

Funding is programmed on an annual basis for design and construction work.

2019 - 2023 Capital Improvements Program

TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

GR132 **Scioto River Pedestrian Bridge**

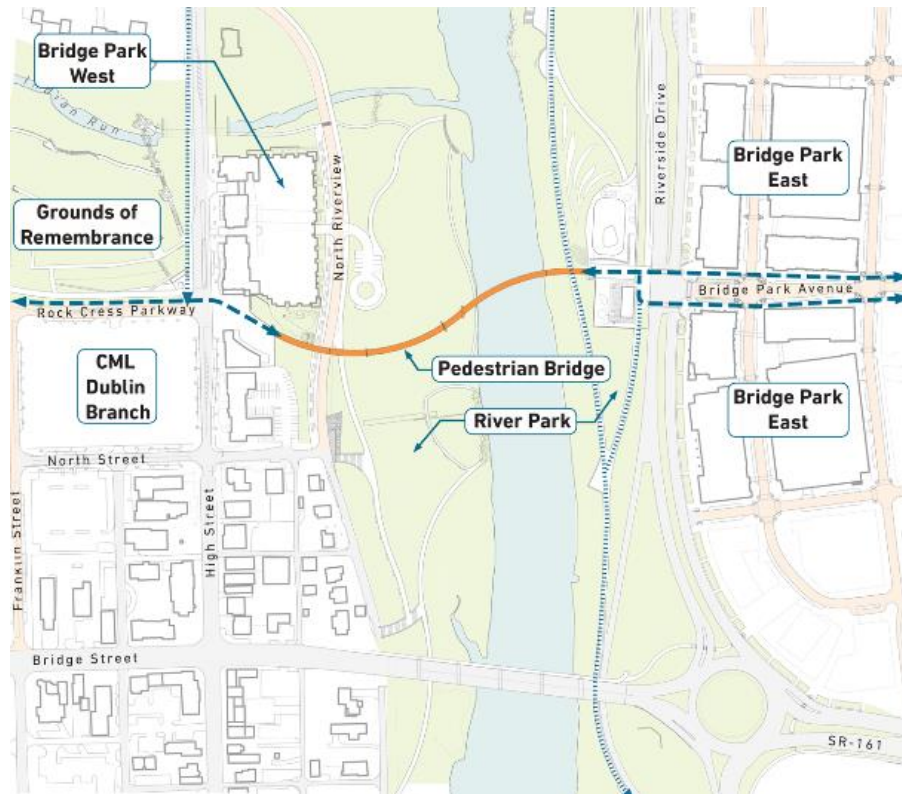
This project provides for the design, land acquisition and construction of an iconic pedestrian bridge over the Scioto River connecting the Historic District to the new Bridge Street District. Detailed design and environmental permitting of the Scioto River Pedestrian Bridge began in late 2015. The detailed design process is bringing the iconic concept developed and endorsed as part of the Bridge Street District River Corridor Framework Plan in early 2013 to fruition. The concept consists of an “s” curve, two span, suspension bridge, with a tear drop shaped pylon. The Pedestrian Bridge will serve as an iconic pedestrian and bicycle crossing that functions both as a critical transportation link and a regional destination, while at the same time, featuring the scenic Scioto River corridor.

The construction estimate included an above-deck tower height of 110 feet, intermediate lighting level, concrete piers, 700+ foot total length by 14 foot wide, and a 20% contingency.

Construction began in 2017 with an anticipated duration of two years, opening in 2019. This schedule is subject to obtaining the requisite federal environmental permits, steel availability, weather, and adjacent construction activities.

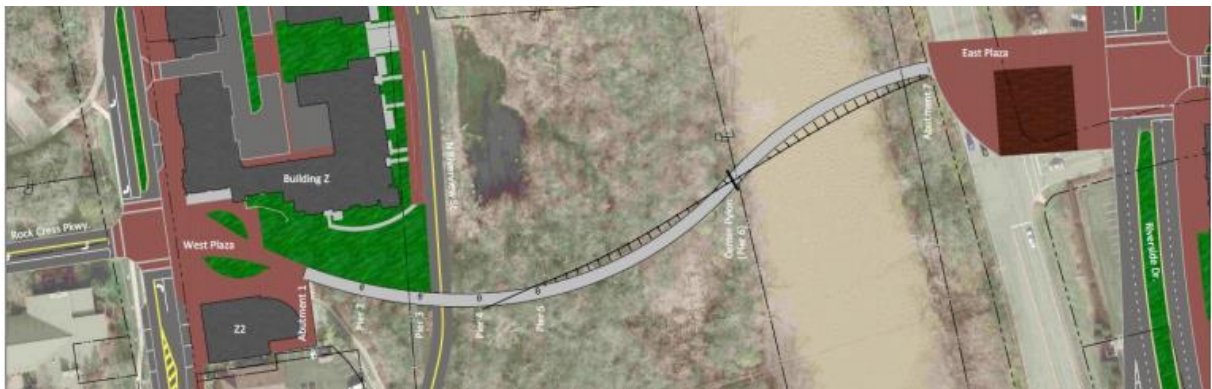


2019 - 2023 Capital Improvements Program



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The Pedestrian Bridge design and architecture was completed by endrestudio, the structural and civil engineering by Ty Lin International, and the construction is contracted with Kokosing Construction Company, Inc.



Depiction of West Plaza, East Plaza and pedestrian bridge.

This project is being funded through general obligation debt.

2019 - 2023 Capital Improvements Program

ET16B John Shields Parkway Bridge Over Scioto River

This project provides for the study, design and construction of a future vehicular bridge over the Scioto River between the I-270 and Bridge Street bridges, at the location of the new John Shields Parkway intersection with Riverside Drive. This future bridge will link destinations east and west of the Scioto River in order to facilitate local travel within the Bridge Street District. In addition to a new vehicular connection, the future bridge will provide additional pedestrian and bicycle connectivity across the Scioto River. A structure-type study began in February 2016 as part of a comprehensive evaluation of the floodway/floodplain impacts of the pedestrian bridge and other proposed park land improvements.

Funding includes a signal at Dublin Road and signal reconfiguration at Riverside Drive. The bridge span is approximately 715 feet long.

Reflected beyond year 2023 is funding for design, project site acquisition (one parcel) and construction costs.

CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
TRANSPORTATION - STREETS AND PARKING											
CAPITAL MAINTENANCE											
AT191	Annual Street Maintenance Program	0	3,990	6,000	6,300	6,500	6,500	6,500	31,800	0	31,800
AT19A	Annual Guardrail Replacement & Maintenance	0	140	170	145	220	320	270	1,125	0	1,125
AT197	Annual Parking Lot Maintenance	0	320	335	180	345	500	145	1,505	0	1,505
AT19E	Annual Retaining Wall and Decorative Wall Maintenance	0	100	70	130	125	50	50	425	50	475
AT19F	Annual Pavement Preventive Maintenance	0	525	545	565	585	605	630	2,930	0	2,930
AT19G	Traffic Signal Wiring and Cabinet Maintenance and Replacement	0	75	210	220	115	0	0	545	0	545
AT19I	Shier Rings Park Wall Rehabilitation	0	0	20	110	0	0	0	130	0	130
AT19J	Eiterman and Ballantrae Intersection Paver Repairs/Replacement	0	0	35	215	0	0	0	250	0	250
10/9/2018	TOTAL	0	5,150	7,385	7,865	7,890	7,975	7,595	38,710	50	38,760

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Street Projects:											
ET013	Tuttle Crossing Blvd. Ext.-Wilcox Road to Avery Road/Avery Road Widening - Tuttle Crossing to Rings Road East, phase 1 (TIF)	1,161	4,000	2,900	15,835	0	0	0	18,735	0	18,735
ET142	Avery Road Widening - Rings Road E. to Woerner Temple, phase 2 (TIF) - Interim Solution	295	470	0	100	1,000	0	0	1,100	6,930	8,030
ET066	Eiterman Road Relocation (TIF)	137	340	0	0	0	0	0	0	2,745	2,745
ET164	University Boulevard Extension, phase 2 (TIF)	0	260	0	0	0	0	0	0	1,800	1,800
ET517	Shier Rings Road-Avery Road to Eiterman Road	0	0	1,300	825	9,045	0	0	11,170	0	11,170
ET523	Perimeter Drive Widening - Holt Road to Commerce Parkway (TIF)	0	0	0	300	0	180	0	480	5,055	5,535
ET17H	Post Road to Frantz Road Intersection Study	0	0	0	500	0	0	0	500	8,000	8,500
ET16D	N. Riverview Rehabilitation	269	0	10	75	0	0	0	85	850	935
ET167	Bridge Street District Program Management	5,630	1,455	400	0	0	0	0	400	0	400
ET17L	Rings Road Utility Burial (Churchman Rd to Eiterman Rd)	0	0	0	0	0	0	0	0	655	655
ET17M	River Forest Storm and Roadway Improvement	0	0	180	0	0	1,800	0	1,980	0	1,980
ET158	Sawmill Road - Snouffer Road Intersection Improvements	243	0	0	0	0	0	0	0	6,865	6,865
ET003	US33/SR161/Post Road Interchange	16,995	160	750	0	0	0	0	750	7,250	8,000
ET518	Hyland-Croy & Post Preserve Roundabout (TIF)	0	0	0	0	0	230	0	230	1,775	2,005
ET092	Post Preserve Access Modification (TIF)	191	180	0	0	0	0	0	0	1,485	1,485
ET089	Hyland-Croy / McKittrick Road Roundabout	247	132	0	0	0	400	2,100	2,500	0	2,500
ET157	Post Road Improvements	0	0	0	0	0	0	0	0	5,230	5,230
ET17U	Riverside Dr/Summit View Road Intersection and Shared-Use Path	0	0	0	0	0	0	0	0	1,960	1,960
ET16E	Comprehensive Wayfinding System - Phased City Wide	804	90	230	185	165	105	0	685	0	685
ET184	Rings Farms Public Streets and Utilities	0	450	0	0	0	0	0	0	3,900	3,900
ET185	Cosgray and Rings Roads Intersection Improvements	0	0	0	0	0	0	0	0	225	225
ET186	Riverside Dr at Martin Road Roundabout and Access Management	0	0	0	0	0	0	0	0	9,350	9,350
ET187	Frantz Road Streetscape Improvements	0	190	0	0	0	0	0	0	1,130	1,130
ET188	West Bridge Street Area Improvements	0	0	0	475	0	0	0	475	0	475
ET181	Franklin Street Improvements & AEP South High Street Pole Line Removal and Relocation	0	0	0	0	50	1,090	0	1,140	0	1,140

CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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TRANSPORTATION - STREETS AND PARKING

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Street Projects:											
ET111	Railroad Quiet Zone, Houchard Road to Leap Road	10	0	0	0	0	0	0	0	25	25
ET17I	Shawn Falls Extension, phase 1	0	0	0	0	0	0	0	0	6,150	6,150
ET159	Dale Drive Rehabilitation	0	0	0	0	0	0	0	0	6,065	6,065
ET161	Tuttle Crossing Blvd., phase 2	0	125	0	0	0	0	0	0	900	900
ET191	Avery and Shier-Rings Road Roundabout & Old Avery Relocation	0	0	530	1,205	4,000	0	0	5,735	0	5,735
ET192	Bright Road Improvements	0	0	0	200	0	0	0	200	2,200	2,400
ET193	Hyland-Croy Road Corridor Improvements	0	125	0	0	1,162	2,925	9,825	13,912	0	13,912
Parking Projects:											
ET17A	Smart Parking/Bridge Street District Parking Control/Metering Equipment	0	0	385	0	0	0	0	385	0	385
10/9/2018	TOTAL	26,231	10,303	6,685	19,700	15,422	6,730	11,925	60,462	80,545	141,007
2019-2023	TOTAL - STREETS AND PARKING	26,231	15,453	14,070	27,565	23,312	14,705	19,520	99,172	80,595	179,767
2018-2022	TOTAL - STREETS AND PARKING	0	38,806	27,400	16,905	8,825	11,505	N/A			
	\$\$ Difference	0	(23,353)	(13,330)	10,660	14,487	3,200	N/A			
	% Difference	0.0%	-60.2%	-48.6%	63.1%	164.2%	27.8%	N/A			



2019 - 2023 Capital Improvements Program

TRANSPORTATION – STREETS AND PARKING CAPITAL MAINTENANCE

Note: The funding source for the following projects is the Capital Improvements Tax Fund unless otherwise stated.

AT191 Annual Street Maintenance Program

Funding for this project provides an annual allocation for repairing the City's roadways. The Street Maintenance Program consists of replacement of deteriorated concrete curb and gutter, street base stabilization, milling of deteriorated pavement surfaces and placement of new asphalt pavement. There are currently 274 miles of public roadway in the City with an equivalent of 619 lane miles of pavement. The pavement was inspected in 2017 by Gorrondona & Associates, Inc. using laser scanning technology to measure distress and calculate a Pavement Condition index (PCI) score. The current average PCI of the system is 80.7 with an overall system goal of 75, which equates to "good" condition. In addition, there is a goal of a minimum rating of 50 for local streets and 60 for all others.

Pavement Condition Index

PCI Goal	75
Current Condition	80.7

Miles of Pavement

	Center Line Miles	Lane Miles
Dublin Maintained	274	619
Dublin Snow & Ice	283	644
All Roads	318	N/A

The factors used to prioritize and select streets for inclusion in the program include: existing pavement condition index, type and severity of deterioration, average daily traffic, functional classification of the street, annual maintenance costs, and expected economy of grouping streets by location to gain contractor efficiency and minimize neighborhood disruptions. Also the condition of the existing curb and gutters are evaluated. That work is aligned with the pavement work.

Routine maintenance is addressed by City staff including pothole patching, spot asphalt repairs, berm repairs, and spot concrete curb repairs.

A comprehensive work plan for Pavement Maintenance, including detailed condition scores, is on file in the Public Works Department.



2019 - 2023 Capital Improvements Program

The annual cost estimates funded in the five-year program are based on average per lane mile costs of Historical Dublin resurfacing contracts.

AT19A Annual Guardrail Replacement and Maintenance

This project provides annual funding for the guardrails within the City of Dublin to be maintained and/or replaced in compliance with current standards. There are 249 guardrail locations within or touching the City limits. Of that total, the City of Dublin maintains 189 locations totaling 29,844 feet of guardrail. The remaining locations are maintained by the State, Franklin county, or private entities. Of the guardrail maintained by City of Dublin, 61% are metal and the remaining 39% are wood.

A comprehensive inventory and inspection was performed in 2017 of the existing guardrails in the City of Dublin. A five-year Work Plan has been developed in support of the funding requests. The inspections take the condition of the rails and posts into consideration and also evaluate the alignment and protective coating conditions. The inspections also verify that the guardrail meets the height criteria.

A comprehensive work plan for Guardrail Maintenance is on file in the Public Works Department.

Year	Number Locations	Total Length	Const Estimate	Design Estimate	Total Estimate
2019	16	1,950	\$151,000	\$18,000	\$169,000
2020	12	1,274	\$116,000	\$27,000	\$143,000
2021	10	1,747	\$177,000	\$42,000	\$219,000
2022	18	2,127	\$278,000	\$41,000	\$319,000
2023	7	1,959	\$269,000	\$0	\$269,000

Year / Work Type / Location	Score	Total Length	Number	Const Total
2019	55	1,950	16	\$151,000
Full Replace - Metal	46	870	5	\$65,000
POST RD	55	671	3	\$50,000
RIVERSIDE DR	32	200	2	\$15,000
Full Replace - Wood	53	628	6	\$86,000
ARYSHIRE DR	56	242	2	\$34,000
BRAND RD	58	263	2	\$36,000
OLD WILCOX RD	44	123	2	\$16,000
Project Replacement	68	451	5	\$0
BRIGHT RD	49	88	2	\$0
CARNOUSTIE DR	77	236	2	\$0
FRANTZ RD	88	128	1	\$0
2020	59	1,274	12	\$116,000
Full Replace - Wood	57	813	8	\$116,000
EITERMAN RD	50	299	2	\$43,000
GLICK RD	65	140	2	\$20,000
KILGOUR PL	53	179	2	\$25,000
SHAWAN FALLS DR	72	125	1	\$18,000
SUMMIT VIEW RD	52	69	1	\$10,000
Project Replacement	61	461	4	\$0
MUIRFIELD DR	61	461	4	\$0
2021	60	1,747	10	\$177,000
Full Replace - Metal	59	135	2	\$11,000



2019 - 2023 Capital Improvements Program

DUBLIN RD	57	99	1	\$8,000
RIVERSIDE DR	61	35	1	\$3,000
Full Replace - Wood	59	1,114	6	\$166,000
AVERY RD	62	85	1	\$13,000
DUBLIN METHODIST LN	56	254	1	\$38,000
MEMORIAL DR	59	407	2	\$60,000
WAREHAM DR	59	367	2	\$55,000
Project Replacement	67	498	2	\$0
CARNOUSTIE DR	67	498	2	\$0
2022	59	2,127	18	\$278,000
Full Replace - Metal	62	483	3	\$40,000
DUBLIN RD	62	483	3	\$40,000
Full Replace - Wood	59	1,550	13	\$238,000
BRISTOL PKWY	55	254	2	\$39,000
EMERALD PKWY	60	193	1	\$30,000
MACBETH DR	60	117	2	\$18,000
MEMORIAL DR	60	128	1	\$20,000
MUIRFIELD DR	60	761	6	\$116,000
MUIRFIELD RD	60	98	1	\$15,000
Project Replacement	55	94	2	\$0
MONTEREY DR	55	94	2	\$0
2023	63	1,959	7	\$269,000
Full Replace - Wood	58	1,705	5	\$269,000
BRAND RD	52	1,549	1	\$245,000
STOCKTON WAY	59	156	4	\$24,000
Project Replacement	78	253	2	\$0
BRANDONWAY DR	78	253	2	\$0
Grand Total	59	9,056	63	\$991,000

Note: Design costs are not included in the table above.

Average Condition Score	70
Goal	70

Number of Dublin Guardrails	189
Total Length of Dublin Guardrails (feet)	29,844

AT197 Annual Parking Lot Maintenance

This project provides for the maintenance of the City's parking lots. There are 85+/- inventoried public parking locations in the City of Dublin including lots and on-street parking locations. The public parking lots total approximately 76 acres of area.

A comprehensive work plan for Parking Lot Maintenance, including detailed condition scores is on file in the Public Works Department.

An annual funding amount is reflected during the five-year program period based on projects to be completed by year.

Average Condition Score	70.6
Goal	70



2019 - 2023 Capital Improvements Program

Year	No. Projects	PM Estimate	Const Estimate	Total Estimate
2019	11	\$212,000	\$120,000	\$332,000
2020	9	\$97,000	\$83,000	\$180,000
2021	1	\$0	\$342,000	\$342,000
2022	2	\$0	\$501,000	\$501,000
2023	11	\$144,000	\$0	\$144,000

Year / Planned Work / Location	Number	Const Estimate
2019	11	\$332,444
Concrete Repair	1	\$34,028
Fuel Station	1	\$34,028
PM - Crackseal and Sealcoat	8	\$212,263
City Hall East Lot	1	\$2,926
City Hall West Lot	1	\$14,006
DCRC North Lot	1	\$46,391
Fleet Maintenance Front Lot	1	\$21,676
Fleet Maintenance Rear Lot	1	\$90,187
Justice Center Back Lot	1	\$27,316
NE Coffman Park Drive	1	\$7,980
Tartan West Open Space Lot	1	\$1,780
Replace	1	\$32,843
Darree Fields Community Garden Lot	1	\$32,843
Resurface	1	\$53,312
Justice Center Front Lot	1	\$53,312



2019 - 2023 Capital Improvements Program

Year / Planned Work / Location	Number	Const Estimate
2020	9	\$179,812
PM - Crackseal and Sealcoat	8	\$96,704
Darby Street Parking Lot	1	\$15,807
Darree Fields Ball Diamond West Lot	1	\$7,223
Indian Run Elementary North Parking Lot	1	\$13,135
John Wright Lot	1	\$2,143
Llewellyn Farms Park Lot	1	\$4,487
North Pool Lot	1	\$30,532
Ted Kaltenbach Park Lot	1	\$14,271
Thaddeous Kosciuszko Park Lot	1	\$9,107
Mill & Fill	1	\$83,108
Darree Fields West Drive	1	\$83,108
2021	1	\$342,300
Replace	1	\$342,300
DCRC West Overflow Lot	1	\$342,300
2022	2	\$501,399
Resurface	2	\$501,399
Service Complex Rear Drive	1	\$78,925
Service Complex Rear Lot	1	\$422,474
2023	11	\$144,456
PM - Crackseal and Sealcoat	11	\$144,456
Avery Park Water Tower Lot & Drive	1	\$14,938
Darree Fields Miracle League Lot	1	\$9,191
Darree Fields SE Entrance Drive	1	\$16,249
Darree Fields Soccer Center N Lot	1	\$12,156
Darree Fields Soccer Center S Lot	1	\$12,294
Darree Fields Soccer East N Lot	1	\$16,577
Darree Fields Soccer East S Lot	1	\$15,165
Darree Fields Soccer NE Lot	1	\$9,571
Darree Fields Soccer North West Lot	1	\$19,612
Darree Fields Soccer Restroom Lot	1	\$5,610
Darree Fields West Entrance Drive	1	\$13,092
Grand Total	34	\$1,500,411

Note: Design costs are not included in the table above.



2019 - 2023 Capital Improvements Program

AT19E Annual Retaining Wall and Decorative Wall Maintenance

This project provides annual funding for maintenance of the City's retaining and decorative walls. In August 2016, an inventory of all the walls in Dublin was conducted; walls 36" or taller and adjacent to the roadway were inventoried. Walls inside parks or any other location not near the roadway right-of-way were not inventoried. There are 254 wall locations within the City limits totaling approximately five miles in length. Of that total, the City of Dublin maintains 78% of the length of wall locations totaling 20,618 feet. The remaining locations are maintained by the Franklin county or private entities. The vast majority of the wall types are stone. There is also a significant number of concrete walls as well as a few timber walls and mechanically stabilized earth walls. The focus of the retaining wall work plan is to address and prioritize structural problems while also focusing on the aesthetics of the wall. Preventative maintenance is mainly performed through our concrete sealing contract.

A comprehensive work plan for Wall Maintenance, including detailed condition scores is on file in the Public Works Department.

Funding is programmed for this project on an annual basis for design and construction.

AT19F Annual Pavement Preventive Maintenance

Funding this project provides for the annual pavement preventive maintenance (PM) in the form of crack sealing, pavement rejuvenators and other strategies. Preventive maintenance is a planned strategy of cost effective treatments to an existing roadway system that preserves the system, decelerates future deterioration, extends the service life, and maintains or improves the functional condition of the system without substantially increasing structural capacity. Pavement preventive maintenance treatments reduce the amount of water infiltrating the pavement structure, protect the pavement system, slow the rate of deterioration, or correct surface deficiencies such as roughness and non-load related distress. Applied at the proper time, preventive maintenance treatments are proven to prolong the life of pavements at a lower user cost.

The annual cost estimates funded in the five-year program are based on dividing the square yards of pavement that meet the PM criteria by five years and multiplying by the average PM costs and inflated using ODOT's inflation calculator.

AT19G Traffic Signal Wiring and Cabinet Maintenance and Replacement

This project provides funding for the replacement of traffic signal controller cabinets and replacement of traffic signal wire at existing traffic signal locations. This work is necessary due to aging of the infrastructure, upgrading equipment, or needing to improve maintenance access.



2019 - 2023 Capital Improvements Program

Funding provided for design in 2018, contracted wiring work at two intersections in 2019, two in 2020, and one in 2021. Locations are:

- Bridge Street (U.S. 33/S.R. 161) at High St (S.R. 745)
- Emerald Parkway at Coffman Road/Coffman Park Drive
- Avery-Muirfield Drive at Perimeter Loop Road/Hospital Drive
- Frantz Road at Blazer Parkway/Longbranch Drive
- Riverside Drive (S.R. 257) at Summit View Road

AT19I Shier Rings Park Wall Rehabilitation

This project provides funding for rehabilitation of the cast-in-place concrete and stone veneer walls surrounding portions of the pond located at Shier Rings Park. The stone veneer has begun to delaminate from the concrete and is posing a concern at the edge of the water. The best course of action is to modify the wall height and replace the stone veneer.

Funding is programmed in 2019 for design, with construction programmed in 2020.

AT19J Eiterman and Ballantrae Intersection Paver Repairs/Replacement

This project provides funding to remove and re-use and/or replace the pavers at the intersection of Eiterman Road and Ballantrae Place. The pavers will be removed and placed on a new base. The existing intersection has isolated areas of shifting pavers, causing the intersection to fail both aesthetically and structurally.

Design is programmed for funding in 2019, with construction programmed in 2020.



2019 - 2023 Capital Improvements Program

TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Street Projects:

ET013 Tuttle Crossing Boulevard Extension – Wilcox Road to Avery Road / Avery Road Widening – Tuttle Crossing Blvd. To Rings Road East, Phase 1

This public infrastructure project provides for the extension of Tuttle Crossing Boulevard from its current terminus at Wilcox Road to Avery Road. The project includes the construction of a four-lane boulevard with curb and gutters, bikeway, sidewalk, street lights, traffic signals, a multi-use tunnel and landscaping. Funds for a preliminary alignment study were programmed in 2012 partially due to the National Church Residence's (NCR) ability to secure financing for the construction of one and two bedroom housing units for seniors of mixed incomes and discussions with Homewood for development of the area north of the NCR site.

Site acquisition is currently on going through 2018 and 2019, with construction currently programmed in 2020.

Costs in 2019 include a utility duct bank that will be extended along Tuttle Crossing Boulevard. Overhead utilities will be buried along Avery Road and Rings Road, from the intersection with Avery Road west to 6236 Rings Road.

Construction costs reflected in the Capital Improvements Program include total construction costs (not total City of Dublin costs). Currently, the City of Dublin's portion of the project is planned to be funded through service payments from the Rings/Frantz TIF, and the Thomas/Kohler TIF. The individual contributions from outside funding is as follows:

City of Columbus	\$2,800,000
Private Developer	\$492,800
MORPC Attributable Funds	\$7,000,000
Gage Crossing	<u>\$42,986</u>
	\$10,335,786

However, a \$5,500,000 "gap" in funding still exists. In order to close the funding gap, the City of Dublin increased the request to MORPC for attributable funds to include funding for utility relocation and landscaping. If this request is successful, it will reduce the City of Dublin's portion of the construction costs to under \$500,000, leaving the majority of the City of Dublin's commitment to project development and right-of-way acquisition.



2019 - 2023 Capital Improvements Program

As of early August 2018, representatives from MORPC have expressed that accommodating additional funding requests will be difficult until 2021, or perhaps may even be pushed to later years. Subsequently, the timing of construction of the project is subject to change.

ET142 Avery Road Widening – From Rings Road east to Woerner Temple Road, Phase 2 (Interim Solution)

This project provides for the widening of Avery Road from Woerner Temple Road to Rings Road west. It will include a four lane boulevard “Emerald Parkway” section for Avery Road approximately 3,150 feet in length; street lighting; and a bridge over Cramer Ditch. This project widens Avery Road to the maximum four lane section due to development pressure along Avery Road, including Avondale Woods and the National Church Residences. Funding for this project has been deferred past the five-year program period, and will be re-evaluated as the Tuttle Crossing Boulevard Extension project progresses.

The Interim Solution provides funding for a traffic signal and necessary accompanying roadwork at the intersection of Avery Road and Rings Road. Funding is programmed in 2020 for design and any necessary right-of-way acquisition, and construction is programmed in 2021.

Funding for this project is anticipated to be from service payments from the Thomas/Kohler TIF and the Rings/Frantz TIF. Attributable funding through MORPC was applied for in 2016, however the City was not selected for funding of this project.

ET066 Eiterman Road Relocation

This project includes funding for the relocation of Eiterman Road from the S.R. 161/Eiterman Road roundabout project south around the Ohio University (OU) campus. Work includes the burial of overhead utilities along Eiterman Road. This project helps to facilitate the OU campus expansion, and provides greater freeway frontage and development opportunities.

Design of the project was programmed in 2018, and construction, landscape and utility burial is reflected beyond the five-year program period. The project is subject to on-going evaluation and will be initiated by further development of the Ohio University campus.

Funding for this project will be advanced. As funds become available, service payments from the Ohio University (OU) TIF will repay the advance(s).



2019 - 2023 Capital Improvements Program

ET164 University Boulevard Extension Phase 2

This project provides the next phase of University Boulevard, south of S.R. 161. The project provides funding for extension of 1,375 feet of roadway to support development of the OU campus. Relocated Eiterman Road will connect with University Boulevard Phase 2.

Design of the project was programmed in 2018, but as of July 2018 work has not begun on this design effort as the project is development dependent. Construction and landscaping are reflected beyond the five-year program period. Funding for this project will be advanced. As funds become available, service payments from the Ohio University (OU) TIF will repay the advance(s).

ET517 Shier Rings Road - Avery Road to Eiterman Road

This project provides programming for the upgrade of the existing two lane road with ditches to a four to five lane road (divided with median) with curbs and gutters within 100 feet of the right-of-way. Possibly a roundabout will be installed at Eiterman Road/Shier Rings Road. Approximately 5,400 ft. of Shier Rings Road will be affected.

City Council approved Ordinance 05-16 authorizing the purchase of 73.650 acres, more or less, located at 6600 Shier Rings Road. The timing of the development of this property impacts the need for infrastructure improvements.

Design is programmed in 2019, site acquisition and utility relocation in 2020, and construction and landscaping in 2021. The funding sources for this project will include developer contributions, the Perimeter West TIF, the Shier Rings TIF, and General Fund transfer.

ET523 Perimeter Drive Widening - Holt Road to Commerce Parkway

This project widens approximately 3,300 linear feet of Perimeter Drive from Holt Road to Commerce Parkway from an existing three lanes to four to five lanes to address increased traffic volume, delay, and reduced safety on Perimeter Drive. This improvement supports the commercial corridor along Perimeter Drive. Utilities are already buried along Perimeter Drive. The proposed right-of-way width is 100 feet. There is approximately 90 feet already in place. An additional 10 feet along the north side of Perimeter Drive will be required when the project advances.

The final design is programmed in 2020 with right-of-way acquisition is funded in 2022. Utility relocation and construction is reflected beyond the five-year program period. This project will be funded through service payment revenue received from the Perimeter Center TIF.



2019 - 2023 Capital Improvements Program

ET17H Post Road to Frantz Road Intersection Study

This project provides funding to study the realignment of Post Road to create an intersection with Kilgour Place that is further north of the existing intersection near S.R. 161. This will also provide an alternative route at some future point when S.R. 161/Frantz Road/Post Road intersection is reconstructed. This is approximately 1,550 feet of reconstruction and realignment.

Design for this project is programmed in 2020, site acquisition and construction is reflected beyond the five-year program period. Outside funding sources will be pursued for the future construction costs of this project.

ET16D North Riverview Rehabilitation

Funding for this project provides for spot repairs, resurfacing and re-striping of N. Riverview Street from the construction entrance north to Dublin Road, and the Indian Run intersection. This street served as the haul road for the Pedestrian Bridge construction, it is likely that the haul road will need spot repairs and other maintenance after the bulk of construction is complete.

Design is programmed in 2019, and funding for spot repairs to the haul road is shown in 2020. Additional funding is reflected beyond the five-year period for more extensive road work, if necessary.

ET167 Bridge Street District Program Management

This project provides funding for the management of public infrastructure planning, design and construction in the Bridge Street District. Consultant support is provided for peak planning, design and construction periods in lieu of hiring permanent staff. The project costs programmed represent estimated management costs based on proposed construction projects.

The bulk of the funding in 2018 and 2019 is for construction administration and testing for the Pedestrian Bridge project. Funding for this additional management support is currently programmed for completion in 2019. The Bridge Street TIF is the funding source for this project.

ET17L Rings Road Utility Burial (Churchman Road to Eiterman Road)

This project is the relocation of overhead utilities on AEP power poles to underground conduits and vaults on the north side of Rings Road between the west side of Churchman Road roundabout and the east side of Eiterman Road to 6236 Rings Road, which is where the Tuttle Crossing Boulevard extension project ends burying overhead utilities. Overhead utilities will be placed underground with the Tuttle Crossing Boulevard extension project from Rings Road to Woerner Temple Road, including Rings Road between Eiterman Road and Avery Road.



2019 - 2023 Capital Improvements Program

This project will place the remaining underground aerial utilities within the City of Dublin's corporation limit along Rings Road from west of the Churchman Road/Rings Road roundabout to 6236 Rings Road.

Design, site acquisition, construction and costs of other appurtenances are reflected beyond the five-year program period.

ET17M River Forest Storm and Roadway Improvements

This project provides funding for improvement to roadside drainage and rehabilitation of roadways in River Forest. Over time, the ditches in this area have been filled in by residents causing the roadway not to drain properly. The project includes installation of storm piping, removal or modification of enclosed ditches, and reconstruction of roadways. Locations for the work is Ashford Road, Indian Hill Road, River Forest Road, and Bennett Court.

Project design is programmed in 2019 with construction funded in 2022.

Funding for the construction of this project will be from issuance of debt.

ET158 Sawmill Road – Snouffer Road Intersection Improvements

This project is funded to evaluate the intersection access at the Sawmill Road and Snouffer Road intersection. This intersection is located near the Dublin Village Center shopping center which has been struggling for years. This evaluation is to determine what, if any modifications to the intersection access and configuration are possible. This project also includes funding a bridge study to determine what type of bridge would be best across I-270 in this area, as well as a traffic analysis to determine how the new bridge would tie into Emerald Parkway. This project would be in lieu of widening Sawmill Road to seven lanes and would be built in cooperation and support from the City of Columbus.

Site acquisition, utility relocations, and construction of the intersection project is reflected beyond the five-year program period. Costs have not been included for a new vehicular bridge. If approved, those costs will be included in future years as studies progress.

ET003 U.S. 33/S.R. 161/Post Road Interchange

This project provides for U.S. 33/S.R. 161/Post Road interchange ramps and terminal intersections previously approved by the Federal Highway Administration and Ohio Department of Transportation. The project will provide needed interchange capacity.



2019 - 2023 Capital Improvements Program

The City of Dublin assisted Union County with preparing applications for MORPC Attributable Funding and ODOT TRAC funding. Union County was awarded \$7 million in TRAC funding for 2019, and added \$1 million for local funding. A significant funding gap for this project still remains. An application for MORPC Attributable Funding is being researched for an out-of-cycle funding request to close the funding gap.

Funding is programmed in 2019 for added design cost to complete phase two detailed design drawings, and right-of-way acquisition for a property along Liggett Road and other necessary temporary easements. The Perimeter Center TIF, and any available funding in the COIC Fund will be the funding source for this portion of the project.

The City's contribution towards the project construction is shown beyond the five-year period. The debt issuance would be the funding source for future construction. The year of construction is dependent on the allocation of outside funds.

ET518 Hyland Croy and Post Preserve Roundabout

This project provides funding for a roundabout at a new intersection on Hyland Croy Road for the new entrance to the Post Preserve subdivision.

Design and site acquisition is programmed in 2022, and will be funded through the Perimeter West TIF. Construction is reflected beyond the five-year program period. Debt would be issued in the future to fund construction of this project.

ET092 Post Preserve Access Modification

This project provides for extending and connecting Springview Lane and Stillhouse Lane, and then extending the roadway to Hyland-Croy Road (based on City Council motion on November 20, 2006). The project will also bury existing overhead power lines along the east side of Hyland-Croy from Post Road to the access point.

This project is required by ODOT to eliminate the Post Preserve Boulevard intersection with Post Road due to a change in limited access right-of-way for the upgraded interchange at U.S. 33/S.R. 161/Post Road.

Construction, utility relocates and landscape is reflected beyond the five-year program period. Design and utility relocate were programmed in 2017 and 2018.

ET089 Hyland-Croy Road/McKittrick Road Roundabout

This project will improve an existing two lane country road into a single lane roundabout with curbs and gutters, street lights, crosswalks, storm drainage and landscaping. The roundabout will increase intersection capacity, improve sight visibility, and decrease traffic congestion.



2019 - 2023 Capital Improvements Program

Site acquisition is programmed in 2022. Construction, utility relocation and landscaping is programmed in 2023. The developer of Tartan Ridge is required to contribute \$118,125 toward this project.

ET157 Post Road Improvements

This project will improve Post Road between Perimeter Drive and Avery-Muirfield Drive providing a standard three lane curb and gutter section. This 3,400 feet section of Post Road serves commercial areas, churches, single family residential, and senior living establishments. The funding includes landscaping, sidewalk, shared-use path, curbs and gutters, enclosures of existing ditches, storm sewers, extension of existing box culvert, and street lights. Project funding also includes AEP burial of overhead utility lines. This improvement project will enhance traffic capacity, provide increased pedestrian/bicycle mobility, and provide access to commercial properties.

Funding for design, right-of-way or easement acquisition, utility work, construction and other appurtenances of the project are shown beyond the five-year program period.

ET17U Riverside Drive/Summit View Road Intersection and Shared-Use Path Improvement

This project will widen Riverside Drive (S.R. 257) at Summit View Road to provide for installation of a left turn lane, re-create ditches, and add signalization and landscaping. Also, 750 feet of roadway on Summit View Road will be resurfaced with rigid concrete pavement to correct a maintenance concern with the flexible pavement. The shared-use path will connect to the south of Summit View Road and extend to the northern limit of roadway work of this project, thus connecting the shared-use path east of Summit View Road on the north side of that road.

Funding for design, right-of-way or easement acquisition, construction and other appurtenances of the project are shown beyond the five-year program period.

ET16E Comprehensive Wayfinding System – Phased Citywide

This project includes the design and implementation of a comprehensive wayfinding system to be designed as a modular, cost effective, and maintainable program of signs. The system will welcome and guide visitors from “highway to hallway” with an integrated multimodal system of signs to include directional signage (vehicular, pedestrian), integrated mapping system, parking connectivity, and Bridge Street District traffic control and street name signs. Aesthetically, the system design builds on the City of Dublin brand, the unique architectural and streetscape character of historical City of Dublin, and the future Bridge Street District streetscape standards. Future sign-types could include: vehicular gateways, bike, and transit signage.



2019 - 2023 Capital Improvements Program

The Master Sign Plan and key destinations were reviewed in the April 6, 2015 City Council Work Session. The phased plan is as follows:

Phase 1A: Bridge Street District — Riverside Drive and S.R. 161 roundabout, John Shields Parkway (Riverside Drive to Village Parkway).

Phase 1B: Bridge Street District — (All other areas of BSD outside the phase 1A project limits), and extending beyond BSD to include Riverside Drive North of Tuller Road to east at Sawmill, and Coffman Park area West of BSD.

Phase 2A-D: Remaining areas of the City outside Phase 1A + 1B zones, phased in four sections: 2A, 2B, 2C, and 2D.

Costs programmed in 2019 include funding for design of phase 2B, and construction of 2A. Allocations are programmed in 2020-2022 for design, engineering and construction to begin phasing other remaining areas of the City. Final phasing is planned in 2022.

ET184 Rings Farm Public Streets and Utilities

This project will construct approximately 2,400 feet of new public roadway, including a new culvert, sidewalks, and shared-use paths. Also included is the widening of Shier Rings Road to provide for installation of a left turn lane into the project area. This project is located at 6600 Shier Rings Road on acreage owned by the City. Constructing these roadways and installation of utilities will make this City-owned site development ready, enabling the City to attract commercial development to the site.

Design for this project was programmed in 2018, but work has not begun on this effort as it is development dependent. Construction is reflected beyond the five-year program period.

ET185 Cosgray and Rings Road Intersection Improvements

This project programs preliminary engineering to review the alternatives and possible improvements to offset intersection at Cosgray Road and Rings Road east and west. As annexation and development increase in the general area of this intersection, improvements will be needed to properly manage the increase in traffic volumes.

Funding for this review is not yet programmed in the five-year program plan.

ET186 Riverside Drive at Martin Road Roundabout and Access Management

This project provides for the installation of a roundabout at the Riverside Drive and Martin Road intersection, near S.R. 161. Access issues and driveway management issues are the driver for this project. All driveways between Martin Road and S.R. 161 will be right-in/right-out only, and a median will be installed on Riverside Drive. Left turns from driveways on Riverside Drive will be prohibited, U-turns will be allowed at the



2019 - 2023 Capital Improvements Program

roundabouts at Martin Road and S.R. 161. This will ease turning movements to/from Martin Road to/from Riverside Drive, particularly during peak periods. Project alternatives were analyzed from the driveway perspective including connecting parking lots behind buildings, adding a merge lane on southbound Riverside Drive, moving the merge point for the southbound bypass lane to be closer to S.R. 161. However, the best course of action has been put forward for the project.

Funding for the project is reflected beyond the five-year program period.

ET187 Frantz Road Streetscape Improvements

This project will design and construct streetscape improvements along Frantz Road between Tuttle Road and Bridge Street. The draft Corporate Area Plan – Special Area Plan Update (2017) established a strategy to “refresh” Frantz Road streetscape to better reflect the gateway nature of this important City corridor. The improvements included are landscaping at the public street intersections, median landscaping, wayfinding sign system, enhanced crosswalks at the existing public street intersections, repairs to deficient sidewalk sections, and two enhanced mid-block crosswalks.

Funding for landscaping, construction and other improvements is shown beyond the five-year program period. Funding will be reconsidered as development within the area generates TIF revenues to fund the project.

ET188 West Bridge Street Area Improvements

This project will implement the recommendations from the West Bridge Street Framework Plan (when it is adopted). These improvements may include (but is not limited to) streetscape enhancements, roadway improvements, landscaping, pedestrian mobility options, parking, utility conflict resolution planning, and traffic calming. The project encompasses the area of West Bridge Street from Franklin Street to I-270, with an emphasis in the next few years on the areas east of Corbin Mill to Franklin Street.

Funding shown in 2020 reflects design and studies. Cost estimates for construction and implementation is unknown at this time. Adjustments for such will be needed when final recommendations are made with the final plan, and when developing the scope of work with consultants.

ET181 Franklin Street Improvements & AEP South High Street Pole Line Removal and Relocation

This project provides funding to add sidewalks to both sides of Franklin Street from Waterford Drive north to the Historic District and will incorporate the Franklin Street Crosswalk at Bridge Street including curb ramp work for ADA compliance. This project will also be coordinated with the timing of the Franklin Street resurfacing work identified



2019 - 2023 Capital Improvements Program

in the Street Maintenance Program, and with AEP for utility work needed on Franklin Street to accommodate the burial/removal of the existing overhead lines on South High Street from Bridge Street to Waterford Drive.

Design is programmed in 2021 with construction in 2022 for the Franklin Street improvements. Easements will be acquired through donations.

The work for the AEP South High Street pole line removal and relocation is programmed in 2022.

ET111 Railroad Quiet Zone – Houchard Road to Leap Road

This project provides funding for added supplemental safety measures such as medians or extra gates at each public road/rail crossing. Once installed, train warning whistles would not routinely sound along the CSX line for seven consecutive crossings. The crossings include Houchard Road, Cosgray Road, Rings Road, Avery Road, Hadyen Run Road, Davidson Road and Leap Road. There are various jurisdictions involved, including Franklin County, City of Columbus, and the City of Hilliard. The quiet zone at Davidson Road, and Leap Road are already in place.

Funding for the project is reflected beyond the five-year program period.

ET17I Shawan Falls Extension, Phase 1

This project provides funding for the extension of Shawan Falls and Rock Cress for the purpose of providing an alternative route when S.R. 161/Frantz Road /Post Road intersection is constructed, and includes construction of .65 lane miles of roadway. Work includes the design and reconstruction of the Shawan Falls Bridge over the South Fork of Indian Run. Right-of-way acquisition will be needed from the Federal Post Office property and from OCLC.

Funding for the project is reflected beyond the five-year program period.

ET159 Dale Drive Rehabilitation

Funding for this project provides for the reconstruction of 3,000 feet of roadway and other public utilities in accordance with the Bridge Street District standards. The site location is on Dale Drive from S.R. 161 to Tuller Road. This is not a signature street. The need for the development of this roadway will be commensurate with development of the adjacent property.

Design and construction of this project is reflected beyond the five-year period. The need for this project will be monitored as development occurs and funding is available.



2019 - 2023 Capital Improvements Program

ET161 Tuttle Crossing, Phase 2

This project provides funding for preliminary design to extend Tuttle Crossing Boulevard from Cosgray Road to Avery Road. This section of roadway, approximately 1.5 miles, will cross the CSX railroad tracks and will be necessary to determine whether the crossing will be via a bridge or a tunnel. Exploration of these alternatives will be included in the preliminary engineering for the project.

Funding is included in 2018 for preliminary design, and detailed design is reflected beyond the five-year program period. Construction costs are unknown at this time and not reflected.

ET191 Avery Road and Shier Rings Road Roundabout and Old Avery Relocation

This project includes the design and construction for a multi-lane roundabout at the intersection and relocation of Old Avery Road to maintain access to the existing commercial businesses. The existing traffic and proposed development along the Shier Rings Road corridor will prompt the need for increased capacity of the roadway.

Funding for design of this project is programmed in 2019, with site acquisition and utility relocation programmed in 2020. Funding for construction is planned for 2021.

The funding source for this project will be through developer contributions, the Perimeter West TIF, Innovation TIF, and General Fund transfer.

ET192 Bright Road Area Improvements

This project is necessitated by the new elementary school expected to be built and opened in the fall of 2020 on the Dublin City School's property located on Emerald Parkway. This project will install a new shared-use path connection along the south side of Bright Road, between the proposed drive to the future Dublin City School's elementary school, and Macbeth Drive. This will provide pedestrian mobility. An appropriate pedestrian crossing safety feature will also be installed.

ET193 Hyland-Croy Road Corridor Improvements

This public infrastructure project includes the study, design and construction for the widening and improvement of Hyland-Croy Road between Post Road and Brand Road. The existing traffic and proposed development along this corridor will outpace the capacity of the roadway. The project includes widening the roadway, and intersection improvements where necessary. The current funding level is based on planning level estimates (City of Dublin typical standards) for the four lane section, with median, curb and gutter, and bike and pedestrian facilities. However, Dublin staff will continue to work with Union County officials to develop options for the future of Hyland-Croy Road.



2019 - 2023 Capital Improvements Program

However, a \$10,650,000 “gap” in funding exists. The City’s contribution, as provided in this Capital Improvement Program is estimated at 25% of the project cost. It is expected that multiple jurisdictions and funding sources will be involved. Project partners include Union County and several developers that have contributed or will contribute through infrastructure agreements. Design is programmed in 2021, site acquisition and utility work in 2022, and construction in 2023, but will be contingent on funding.

Parking Projects:

ET17A Smart Parking Infrastructure

This project provides funding for the procurement and installation of smart parking equipment and infrastructure. Examples include EV charging stations (both Level two and DC Fast Charging stations) that are designed to charge electric vehicles quickly, parking sensors and/or cameras, license plate readers, signs, combo parking/pedestrian sensors, and other technologies needed to support this initiative.

This project encompasses various locations throughout the City of Dublin, but the focus areas include: downtown City of Dublin, City Hall, DCRC, or other key public parking locations.

The project provides control and facilities turnover for businesses, and will utilize products identified in the Downtown Parking Management Study, implementation phase, led by the City’s Planning division. If the advanced dynamic smart parking management system and enforcement pilot is not successful, parking meters/kiosks may be installed.

Design and construction for this project is programmed in 2019.

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CITY OF DUBLIN
CAPITAL IMPROVEMENT PROJECTS
2019-2023

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2018	2019	2020	2021	2022	2023	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL BUDGETED
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UTILITIES - WATER DISTRIBUTION SYSTEM

CAPITAL MAINTENANCE

EW172	Tartan West Water Tank Re-Painting	0	0	0	10	390	0	0	400	0	400
10/9/2018	TOTAL	0	0	0	10	390	0	0	400	0	400

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AW101	Water Line Replacement	1,536	460	70	600	75	600	75	1,420	625	2,045
EW176	Water Line Extensions - Area 4A	0	105	450	0	0	0	0	450	0	450
EW177	Water Line Extensions - Areas 4A, 4B & 4C	0	1,015	0	0	0	0	0	0	0	0
EW178	Water Line Extensions - Areas 3A & 8A	0	0	235	0	0	0	0	235	970	1,205
EW179	Water Line Extensions - Areas 2B & 2C	0	0	0	0	0	0	0	0	1,245	1,245
EW17A	Water Line Extensions - Area 8C	0	0	0	0	0	0	0	0	380	380
EW190	Bright Road 12" Water Main Extension	0	0	75	135	0	0	0	210	0	210
EW191	Water Line Extensions - Areas 9 & 10B	0	0	0	0	0	0	0	0	1,090	1,090
EW192	Water Line Extensions - Area 10A	0	0	0	0	0	0	0	0	425	425
EW193	Riverside Drive 12" Water Main Extension - Area 22	0	0	0	0	45	150	0	195	0	195
10/9/2018	TOTAL	1,536	1,580	830	735	120	750	75	2,510	4,735	7,245

2019-2023	TOTAL - WATER	1,536	1,580	830	745	510	750	75	2,910	4,735	7,645
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2018-2022	TOTAL - WATER	0	395	2,315	1,240	1,340	1,420	N/A
	\$\$ Difference	0	1,185	(1,485)	(495)	(830)	(670)	N/A
	% Difference	0.0%	300.0%	-64.1%	-39.9%	-61.9%	-47.2%	N/A



2019 - 2023 Capital Improvements Program

UTILITIES – WATER DISTRIBUTION SYSTEM CAPITAL MAINTENANCE

Note: The funding source for the following projects is the Water Fund.

EW172 Tartan West Water Tank Re-Painting

Funds programmed in 2020 and 2021 are for the exterior painting, dry interior and wet interior painting of the Tartan West Water Tank located at 9860 Hyland-Croy Road. The Tartan West Water Tank was originally built in 2006 and is in need of an adhesion test and inspection of the existing coatings. An inspection will be performed in 2020. The results of that inspection, will determine if the work will be pushed beyond 2023.



2019 - 2023 Capital Improvements Program

UTILITIES – WATER DISTRIBUTION SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AW101 Waterline Replacement

There are areas in the City that have older 2" and 3" water pipes that have been identified for replacement with a 6" water pipes. The smaller lines tend to experience more problems with breaks. Reliability of the water pipes distribution system is a key component for customer satisfaction. Engineering staff has prepared a comprehensive list of areas needing replacement and have completed an analysis of the lines to determine when replacement should occur.

There is funding allocated every other year in 2017, 2019, and 2021 for studies and design, and in 2018, 2020, and 2022 for replacement/construction. The work will continue beyond the five-year period. The majority of the current replacements will take place in Muirfield Village.

Water Line Extensions

These projects will provide funding to systematically provide access to areas of the City not currently on the public water distribution system in accordance with the Public Water Utility and Sanitary Sewer Utility Extensions to Existing Developed Property Policy as adopted by City Council on December 7, 2015. During the 2019-2023 CIP workshops, City Council seemed willing to consider extending the implementation plan beyond 15 years. The Administration is planning to conduct a water/sewer rate study in late 2018 to early 2019. The primary outcome from the study will determine the rate structure that needs to be in place in order to provide sufficient funding for the maintenance of the City's existing system into the future. The outcome of that analysis will assist in informing the City in determining the amount, if any, from the General Fund, and/or Capital Improvement Tax Fund that will be needed to fund these extensions.

EW176 Water Line Extensions – Area 4A

This project will provide Area 4A with 6", 8" & 12" water pipe extensions to River Knoll Subdivision (Orchard Crest Drive & River Knolls Place) (11 parcels) and 7049-7575 Riverside Drive (8 parcels). A total of 19 parcels will receive water service.

The project construction is programmed in 2019.

EW177 Water Line Extensions – Area 4A, 4B & 4C

This project provides Area 4B & 4C with 6" & 8" water pipe extensions to Bright Road and Grandee Cliffs Subdivision. Area 4B water extension is located on Bright Road from Riverside Drive and 1,200 feet east of Riverside Drive; Area 4C encompasses Grandee Cliffs subdivision and Bright Road starting at 1,200 feet east



2019 - 2023 Capital Improvements Program

of Riverside Drive to MacBeth Drive. The added portion of 4A in this project includes 4780 Bright Road, and 7230-7348 Riverside Drive.

This project provides for 36 parcels to receive access to water service. Construction is programmed for 2018.

EW178 Water Line Extensions – Area 3A & 8A

This project provides area 3A with 12" water pipe extensions to Riverside Drive and is located along Riverside Drive from Hard Road to Wyandot Woods Boulevard. Area 8A will provide 8" & 16" water pipe extensions to Cara Road, Cara Court, and Rings Road west of Avery Road. The timing of these projects are being leveraged with other projects being scheduled in the area at the time.

Design and site acquisition is programmed in 2019 with construction reflected beyond the five-year program period.

EW179 Water Line Extensions – Area 2B & 2C

Area 2B & 2C will provide 6", 8", and 12" water pipe extensions to Riverside Drive and O'Shaughnessy Hills. Area 2B is located on Riverside Drive from Summit View Road to 8449 Riverside Drive. Area 2C encompasses O'Shaughnessy Hills subdivision east of Riverside Drive. This project provides for 122 parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW17A Water Line Extensions – Area 8C

Area 8C will provide 8" water pipe extensions to Old Wilcox Road. Area 8C is located on Old Wilcox Road between Tuttle Crossing Blvd. and Wilcox Road. This project provides for five parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW190 Bright Road 12" Water Main Extension

This project provides for a 12" water main extension on Bright Road to provide a connection of a 12" water main between Emerald Parkway roundabout and an existing 12" water main at the Village of Inverness. This will provide a looped water main connection for Riverside Woods, Bryson Cove, Hanna Hills, Kiplinger, Glenbriar neighborhoods, Dublin Scioto High School, and Washington Township Fire Department. Currently there is a single 12" water main supplying water beyond the



2019 - 2023 Capital Improvements Program

Emerald Parkway and Hard Road intersections. The extension will serve Area 4A, 4B, and 4C sanitary and water design currently in process (2018).

Design and site Acquisition for this project is programmed in 2019 with construction programmed in 2020.

EW191 Water Line Extensions – Areas 9 & 10B

This project will provide 8" and 12" public water main utility extensions in Area 9 to Olde Dublin Woods Drive, Betonywood Place, Red Oak Lane, and Hirth Road. Area 10B includes water main extensions to serve Locus Hill Lane.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW192 Water Line Extensions – Area 10A

This project will provide Area 10A with 8" water pipe extensions to Thornhill Lane. This project provides for 27 parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW193 Riverside Drive 12" Water Main Extension - Area 22

This project will provide Area 22 with 12" water pipe extension on Riverside Drive. The area is situated on Riverside Drive from Martin Road to 600 feet north of Martin Road. The project provides for two parcels to receive water service.

Design for this project is programmed in 2021 with construction programmed in 2022.

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**CITY OF DUBLIN
CAPITAL IMPROVEMENTS PROGRAM
2019-2023**

PROJECT DESCRIPTION	TOTAL 2019-2023 (\$000)	BEYOND 2023 (\$000)	TOTAL TO BE BUDGETED
SUMMARY			
Administration - Capital Allocations	9,250	0	9,250
Total - ADMINISTRATION	9,250	0	9,250
City Facilities - Capital Maintenance	4,290	140	4,430
City Facilities - Capital Enhancements / New Capital Infrastructure	4,050	3,040	7,090
Total - CITY FACILITIES	8,340	3,180	11,520
Citywide Fleet - Capital Maintenance	6,555	0	6,555
Citywide Fleet - Capital Enhancements / New Capital Infrastructure	230	0	230
Total - CITYWIDE FLEET	6,785	0	6,785
Parks & Recreation - Capital Maintenance	4,075	0	4,075
Parks & Recreation - Capital Enhancements / New Capital Infrastructure	26,475	23,045	49,520
Total - PARKS & RECREATION	30,550	23,045	53,595
Police - Capital Maintenance	620	0	620
Police - Capital Enhancements / New Capital Infrastructure	820	0	820
Total - POLICE	1,440	0	1,440
Utilities - Sanitary Sewer - Capital Maintenance	5,125	2,050	7,175
Utilities - Sanitary Sewer - Capital Enhancements / New Capital Infrastructure	7,850	8,965	16,815
Total - UTILITIES - SANITARY SEWER	12,975	11,015	23,990
Utilities - Stormwater - Capital Maintenance	3,075	685	3,760
Utilities - Stormwater - Capital Enhancements / New Capital Infrastructure	1,910	250	2,160
Total - UTILITIES - STORMWATER	4,985	935	5,920
Computer Hardware / Software / Fiber - Capital Maintenance	5,500	0	5,500
Computer Hardware / Software / Fiber - Capital Enhancements / New Capital Infrastructure	1,100	0	1,100
Total - COMPUTER HARDWARE / SOFTWARE / FIBER	6,600	0	6,600
Transportation - Bicycle and Pedestrian - Capital Maintenance	3,450	0	3,450
Transportation - Bicycle and Pedestrian - Capital Enhancements / New Capital Infrastructure	2,337	7,570	9,907
Total - TRANSPORTATION - BICYCLE AND PEDESTRIAN	5,787	7,570	13,357
Transportation - Bridges and Culvert - Capital Maintenance	5,520	0	5,520
Transportation - Bridges and Culvert - Capital Enhancements / New Capital Infrastructure	0	36,050	36,050
Total - TRANSPORTATION - BRIDGES AND CULVERTS	5,520	36,050	41,570
Transportation - Streets and Parking - Capital Maintenance	38,710	50	38,760
Transportation - Streets and Parking - Capital Enhancements / New Capital Infrastructure	60,462	80,545	141,007
Total - TRANSPORTATION - STREETS AND PARKING	99,172	80,595	179,767
Utilities - Water - Capital Maintenance	400	0	400
Utilities - Water - Capital Enhancements / New Capital Infrastructure	2,510	4,735	7,245
Total - UTILITIES - WATER	2,910	4,735	7,645
TOTALS:			
Capital Maintenance	77,320	2,925	80,245
Capital Allocations	9,250	0	9,250
Capital Enhancements / New Capital Infrastructure	107,744	164,200	271,944
TOTAL PROJECT BUDGET	194,314	167,125	361,439

City of Dublin
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		MUNIS		
		2019	Org	Object
Section 4 - ADMINISTRATION				
AL191	Annual Allocation for Land Acquisition	\$ 500,000	40196290	741000
AL192	Annual Allocation for Parkland Acquisition	\$ 650,000	40280290	735001
AL193	Annual Allocation for Mobility	\$ 250,000	40180290	736000
AA191	Annual Allocation for Contingencies	\$ 250,000	40180290	737000
ES142	Annual Allocation for Sewer Extensions	\$ 200,000	40196290	741000
Section 5 - FACILITIES				
MAINTENANCE				
AB191	City Hall/Annex	\$ 62,000	40180350	735002
AB191	Fleet Maintenance Building	\$ 45,000	40180350	735002
AB191	CNG Facility	\$ 43,000	40180350	735002
AB191	Justice Center	\$ 125,000	40180350	735002
AB191	Parks	\$ 120,000	40180350	735002
AB191	DCRC	\$ 160,000	40180350	735002
AB191	Small In-House Renovations	\$ 25,000	40180350	735002
AB191	HVAC & Pump Replacements	\$ 25,000	40180350	735002
AB191	Carpet/Flooring Replacements	\$ 45,000	40180350	735002
AB191	Painting/Patching Walls (as needed)	\$ 30,000	40180350	735002
RENOVATIONS/IMPROVEMENTS				
AB194	Council Chambers	\$ 3,300,000	40180350	735002
Section 6 - FLEET				
MAINTENANCE				
AV191	Vehicle Replacement	\$ 1,300,000	40180370	734004
AV193	Equipment Replacement	\$ 265,000	40180370	734004
NEW (ADDITIONS TO THE FLEET)				
AV191	Vehicles	\$ 115,000	40180370	734004
AV193	Equipment	\$ -	40180370	734004
Section 7 - PARKS				
MAINTENANCE				
AR191	Park Maintenance	\$ 800,000	40180430	735005
AB192	Public Art Maintenance (Hotel/Motel Tax Fund)	\$ 15,000	23280430	735002
RENOVATIONS/IMPROVEMENTS				
GR121	DAC Site Renovations (Hotel/Motel Tax Fund)	\$ 35,000	23280430	735005
GR113	IGS Park (Thomas/Kohler TIF)	\$ 30,000	41980320	713004
GR133	Riverside Crossing Park (Debt)	\$ 10,900,000	40480430	735005
GR115	Dublin Community Pool North	\$ 1,300,000	40180430	735005
GR171	Dublin Community Pool South	\$ 190,000	40180430	735005
GR190	West Bridge Street/161 - Streetscape Enhancements	\$ 250,000	40180430	735005
GR192	Golf Club of Dublin Interior Enhancements	\$ 20,000	40180430	735005
Section 8 - POLICE				
MAINTENANCE				
PP083	Replacement Lasers	\$ 10,000	40180890	734001
PP084	Replacement Radars	\$ 10,000	40180890	734001
PP171	Walkie Upgrades	\$ 150,000	40180890	734001
PP181	Replacement Bicycles	\$ 20,000	40180890	734001
PP183	Replacement/Upgrade Tasers	\$ 175,000	40180890	734001
PP190	Replacement Datamasters	\$ 25,000	40180890	734001
NEW ENHANCEMENTS/INFRASTRUCTURE				
PP132	Automatic License Plate Readers	\$ 120,000	40180890	734001
PP194	EOC Room Enhancements	\$ 25,000	40180890	734001
PP195	Unarmed Aerial Vehicle (UAV)	\$ 20,000	40180890	734001
PP196	Body Cameras & Mobile Video Systems	\$ 340,000	40180890	734001

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	2019	Org	Object
Section 9 - SANITARY SEWER			
MAINTENANCE			
ES191 Annual Sanitary Sewer Maintenance Program	\$ 225,000	62080320	735008
ES122 Manhole Rehabilitations	\$ 300,000	62080320	735008
NEW ENHANCEMENTS/INFRASTRUCTURE			
ES174 Sanitary Sewer Extensions - Areas 4A, 10C & 10D (Debt)	\$ 655,000	62380320	735008
ES175 Sanitary Sewer Extensions - Areas 3A, 3B, 3C, 8A & 15 (Debt)	\$ 805,000	62380320	735008
ES179 Deer Run Sewer Upsizing - Group #1	\$ 80,000	62080320	735008
ES178 Deer Run Sewer Upsizing - Group #2	\$ 225,000	62080320	735008
ES17A Deer Run Sewer Upsizing - Dumfries Court (Debt)	\$ 1,610,000	62380320	735008
Section 10 - STORMWATER			
MAINTENANCE			
AF191 Annual Stormwater Maintenance	\$ 575,000	40180320	735010
NEW ENHANCEMENTS/INFRASTRUCTURE			
EF181 Rings Farm Stream Relocation	\$ 660,000	40180320	735010
EF190 Allocations for Various Stormwater Improvements	\$ 250,000	40180320	735010
Section 11 - TECHNOLOGY			
AI191 Information Technology	\$ 885,000	40180610	732000
Information Technology (Hotel/Motel Tax Fund)	\$ 15,000	23280610	732000
AI192 Smart Cities	\$ 200,000	40180610	732000
AI172 Connected Vehicles Systems Infrastructure	\$ 50,000	40180610	732000
AI183 US33 COG Infrastructure	\$ 200,000	40180610	732000
AI194 Fiber Optic Enhancements	\$ 445,000	40180610	732000
Section 12 - TRANSPORTATION - BICYCLES & PEDESTRIANS			
MAINTENANCE			
AT193 Annual Shared-Use Path Maintenance	\$ 380,000	40180320	735006
AT196 Annual Sidewalk Program	\$ 250,000	40180320	735006
AT179 Historic Dublin Sidewalk Program	\$ 60,000	40180320	735006
NEW ENHANCEMENTS/INFRASTRUCTURE			
ET171 Glick Road - Section 3	\$ 375,000	40180320	735006
ET16J Concord Road Share-Use Path	\$ 50,000	40180320	735006
ET172 Riverside Drive East, Shared-Use Path	\$ 110,000	40180320	735006
Section 13 - TRANSPORTATION - BRIDGES & CULVERTS			
MAINTENANCE			
AT19C Annual Vehicular Bridge Maintenance	\$ 745,000	40180320	735006
AT198 Annual Pedestrian Tunnel Maintenance	\$ 440,000	40180320	735006
AT19B Annual Concrete Sealing Maintenance	\$ 70,000	40180320	735006
AT19D Annual Culvert Maintenance	\$ 60,000	40180320	735006
AT19H Annual Pedestrian Bridge Maintenance	\$ 40,000	40180320	735006
Section 14 - TRANSPORTATION - STREETS & PARKING			
MAINTENANCE			
AT191 Annual Street Maintenance Program	\$ 6,000,000	40180320	735006
AT19A Annual Guardrail Replacement & Maintenance	\$ 170,000	40180320	735006
AT197 Annual Parking Lot Maintenance	\$ 335,000	40180320	735006
AT19E Annual Retaining Wall & Decorative Wall Maintenance	\$ 70,000	40180320	735006
AT19F Annual Pavement Preventive Maintenance	\$ 545,000	40180320	735006
AT18G Traffic Signal Wiring and Cabinet Maintenance and Replacement	\$ 210,000	40180320	735006
AT19I Shier Rings Park Wall Rehabilitation	\$ 20,000	40180320	735006
AT19J Eiterman and Ballantrae Intersection Paver Repair/Replacement	\$ 35,000	40180320	735006
NEW ENHANCEMENTS/INFRASTRUCTURE			
ET013 Tuttle Crossing Blvd. Extension (Rings/Frantz TIF)	\$ 1,000,000	43380320	713004
(Thomas/Kohler TIF)	\$ 1,900,000	41980320	735004
ET517 Shier Rings Road - Avery Road to Eiterman Road (Capital and Shier Rings TIF	\$ 1,150,000	40180320	735006
(Shier Rings TIF)	\$ 150,000	45096290	741000
ET16D N. Riverview Rehabilitation	\$ 10,000	40180320	735006
ET167 Bridge Street District Program Management (Bridge Street TIF)	\$ 400,000	45780320	713004
ET17M River Forest Storm and Roadway Improvement	\$ 180,000	40180320	735006

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			2019	
			Org	Object
ET158	US33/SR161/Post Road interchange (Perimeter West TIF and COIC TIF)	\$ -		
	(Perimeter West TIF)	\$ 634,500	43180320	735004
	(COIC TIF)	\$ 115,500	44880320	735006
ET16E	Comprehensive Wayfinding System (city wide)	\$ 230,000	40180320	735006
ET191	Avery and Shier Rings Road Roundabout & Old Avery (Various Funds)	\$ 106,000	40180320	735006
	(Perimeter West TIF)	\$ 274,000	43196290	741000
	(Innovation TIF)	\$ 150,000	45996290	741000
PARKING				
ET17A	Smart Parking/Bridge Street Parking Control/Metering Equipment	\$ 385,000	40180320	735006
Section 15 - WATER				
NEW ENHANCEMENTS/INFRASTRUCTURE				
AW101	Waterline Replacement	\$ 70,000	61080320	735009
EW176	Water Extensions - Area 4A	\$ 450,000	61080320	735009
EW178	Water Extensions - Areas 3A and 8A	\$ 235,000	61080320	735009
EW190	Bright Road 12" Water Main Extension	\$ 75,000	61080320	735009

Note: All account numbers above are subject to change. This list is meant as a guide, however, changes during the year (2019) may be necessary.

- 1 - includes debt service, transfer expense and county auditor deductions.
- 2 - expenditures will be charged through the 401 Fund.
- 3 - posted to transfer account for Ord 71-18.
- 4 - shown as a transfer in the 401 Fund.