

TOWN of CARY

North Carolina

FISCAL YEAR 2018

ADOPTED

CAPITAL IMPROVEMENTS BUDGET

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TOWN of CARY
FY 2018 Capital Improvements Budget
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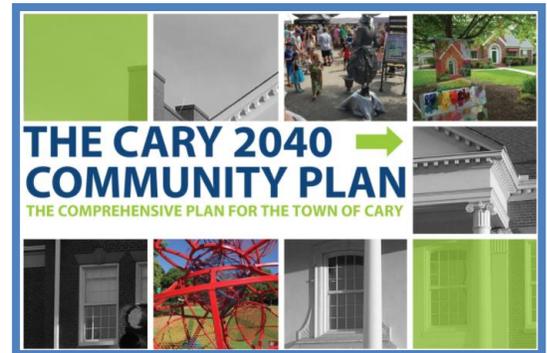


CAPITAL IMPROVEMENTS BUDGET OVERVIEW FOR FISCAL YEAR 2018

Each year, staff prepares a capital improvements budget and a long range capital improvements plan for Town Council’s consideration. The capital improvements budget (CIB) and ten year plan (CIP) are recommendations to help meet Council policy direction in the areas of service delivery, infrastructure maintenance and development, regulatory compliance, facilities planning and development, financial condition and projects needed to further enhance the quality of life in Cary.

Setting the Direction – Imagining Cary

The guiding policy document driving the development of the Town’s CIB/P is the Cary Community Plan which was adopted on January 24, 2017. The Cary Community Plan, also referred to as the Imagine Cary Community Plan, is the result of several years of work, unprecedented community input and dozens of meetings and workshops. It sets out a long-term vision, policies and strategic actions with a time horizon out to 2040. The Cary Community Plan consolidates and replaces several individual plans that have guided Cary’s growth over the past 20 years and covers the entire planning area of Cary, an area of nearly 53,000 acres.



Our Vision for Cary

We Value...

- Leveraging the Town’s Regional Context
- Managing Future Land Use
- Encouraging Redevelopment and Infill Efforts
- Fostering Strong and Sustainable Neighborhoods
- Creating a Vibrant Arts and Cultural Environment
- Fostering a Prosperous Economy and Fiscal Health
- Protecting Nature and the Environment
- Providing Comprehensive and Top Quality Facilities and Infrastructure
- Preserving Historic Resources
- Providing Extensive and High Quality Parks and Recreation
- Providing High Quality Public Services
- Providing an Efficient and Well-Designed Transportation System

“The Town of Cary will continue to be the model of a highly regarded and well-managed community. The interests of residents and businesses will be at the forefront of policies and public investment that foster sustained prosperity. Since the community is mostly developed, the existing suburban pattern of high quality residential, office, and shopping areas will remain dominant. In strategic and appropriate locations, emerging new development patterns—greater intensity in a walkable, mixed use form—will be encouraged to provide existing and future residents additional choices for living, connecting, working, playing, and shopping. The attractive physical setting—including both the natural and built environment—strengthens community pride and encourages private investment. This is also true with the consistent delivery of high quality community infrastructure, services and facilities. The community also continues to prosper through attention to quality and a commitment to a sense of community, culture, and history, revealing the authentic and special Cary.”—from the Foundations chapter of the Cary Community Plan

The Cary Community Plan is divided into the following eight core chapters with each presenting background information on challenges and opportunities facing Cary, followed by policy and intent statements to address them.

<p>LIVE</p> <p><i>Fostering Strong Neighborhoods</i></p>	<p>WORK</p> <p><i>Assuring Continued Prosperity</i></p>	<p>SHOP</p> <p><i>Creating Vibrant Destinations</i></p>	<p>ENGAGE</p> <p><i>Experiencing the Cary Community</i></p>
<p>SHAPE</p> <p><i>Guiding Community Growth</i></p>	<p>MOVE</p> <p><i>Providing Transportation Choices</i></p>	<p>SERVE</p> <p><i>Meeting Community Needs</i></p>	<p>ACT</p> <p><i>Moving From Vision to Reality</i></p>

This Capital Improvements Budget Overview not only presents the funding principles that define capital budgeting in Cary, but it very clearly connects these Cary Community Plan core concepts to programmed and planned projects. For more information on the Cary Community Plan please visit <http://www.townofcary.org/projects-initiatives/cary-community-plan>.

Laying the Ground Work - Wisely Managing and Allocating Our Dollars

Capital Budgeting Practices

The CIB identifies revenue sources and recommendations for project funding. Projects included in the CIB/CIP are typically tangible or intellectual property assets with a value of more than \$25,000 and a useful life of over three years. Exceptions have been made to this rule on occasion for practical reasons.

The CIB contains revenue and expenditure budget amounts for each FY 2018 approved capital project, and while the CIP identifies future year projects for fiscal years 2019 through 2028. Figures noted for fiscal years 2019 through 2028 are for planning purposes only and are not appropriations for those years. All amounts beyond FY 2018 are staff's best estimate of future project needs and costs. Projects will be adjusted, and in some cases deleted, as situations and needs change throughout the course of the ten year planning period.

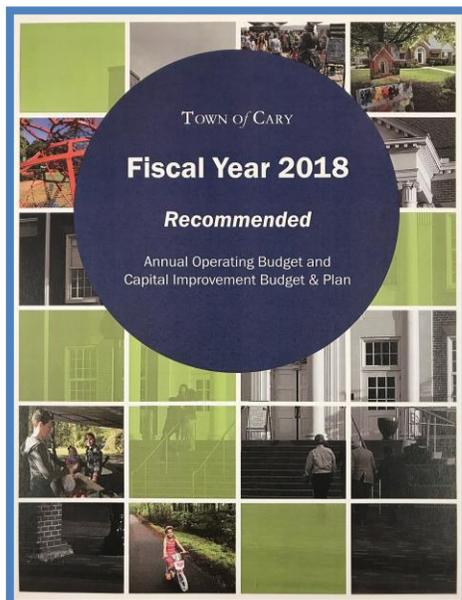
Capital projects are grouped under the following categories:

Utility Capital

- Water
- Sewer

General Capital

- Transportation
- Fire
- Parks, Recreation & Cultural Resources (PRCR)
- General Government
- Downtown



Fiscal Year 2018 marks the 17th year that the Town has produced a rolling ten year capital improvements planning document. A ten year planning tool of this magnitude has two significant benefits. First, it assists the Town in identifying potential projects necessary to meet the long-term goals of the community. Second, it gives Town Council and staff a view of future infrastructure needs and assists them in understanding the level of funding necessary to fulfill those needs.

The Fiscal Year 2018 budget process is the third one where the Town has limited planned appropriations in the four years following the budget year to the amount of funding projected to be annually available. Projects in the four years following the budget year (FYs 2019 – 2022 in this case) are shown as Programmed or Not Programmed for funding to better identify which projects are most likely to be initiated during that period. Projects identified for FYs 2023 – 2028 are more likely to change in scope and timing. Staff annually evaluates each project and adjusts the CIB/CIP to reflect current expectations for the future.

Projects in the FY 2018 CIB year are adopted into the applicable project ordinance. This distinction means that any project-related contract entered into by the Town is regarded as a continuing contract for which funds are considered obligated throughout the term of the project.

The capital budgeting process is initiated prior to the annual operating budget so that maintenance and staffing impacts associated with requested projects may be considered during operating budget development. The capital improvements budget process also includes itemizations of staffing, operating, maintenance and

start-up costs for all projects within the CIP. This data informs staff and Council of recurring cost impacts and estimated total resource needs throughout the multi-year forecast.

Capital Funding Principles

The Town's FYs 2018 – 2028 capital improvements budget and plan focuses on core infrastructure maintenance, necessary infrastructure improvements, and prior commitments and mandates. Projects were chosen based not only for their alignment with the Imagine Cary Community Plan, but also their ability to yield a capital improvements budget/plan that adheres to the following four funding principles:

1. Funding Principle: Utilize as little debt as possible to minimize additional debt service obligations

In March 2008, a series of financial goals were established by Town Council to guide staff in the management of areas such as operating fund balances and debt service. These goals established expectations regarding minimum levels (floors) for operating fund balance and maximum levels (ceilings) for debt service. The approved debt service target directs that general (non-utility) debt service, or the repayment of borrowed funding, should not exceed an amount equal to 15% of total approved general operating expenditures and debt service for a given budget year.

Typically, the Town of Cary utilizes a combination of general obligation bond debt, installment purchase debt and revenue bond debt to fund major infrastructure needs.

Revenue bond debt is often utilized to support water and sewer projects. Revenue bond debt is secured by the Town's utility revenues which are dedicated, non-tax revenue sources. Utility rate increases may be used if necessary to generate the additional revenue needed to afford the incremental debt service associated with revenue bond issuance.

2. Funding Principle: Maximize the use of existing capital reserve fund balances

Fund balance represents monies which remain unspent after all budgeted expenditures have been made. Capital reserve fund balance accumulates in the general and utility capital reserve funds in two ways:

- through budget savings in completed projects
- through revenue collections that are either greater than estimated earnings or are intentionally not appropriated (utilized) within the fiscal year they are earned.

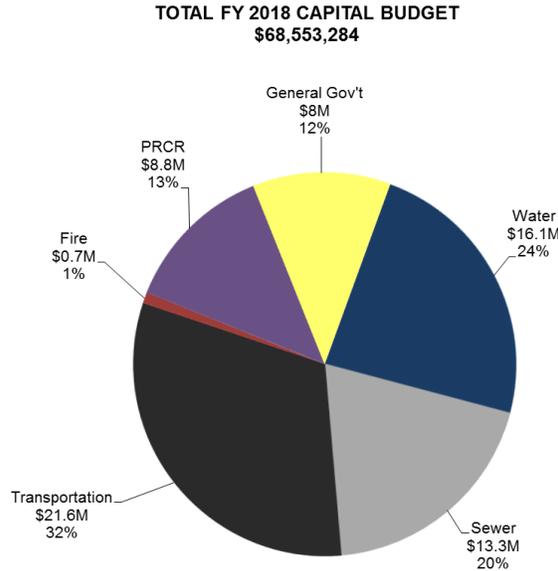
3. Funding Principle: Minimize reliance on FY 2018 capital reserve revenues

The general and utility capital reserve funds each have dedicated revenue sources. These revenue sources are categorized as either restricted or unrestricted. Restricted revenues can only be applied to specific types of projects. Examples of restricted revenues include developer fees, payments made by developers in lieu of infrastructure construction, interlocal funds, vehicle license fees and Powell Bill distributions from the state. Unrestricted revenues are not specific to a certain type or category of project. These revenues can be applied to any type of project within either the general capital or utility capital designation. Investment income and utility franchise fees are examples of unrestricted capital reserve revenue sources. The Town minimizes the use of current year capital reserve revenues to limit the risk of revenue shortfall from variable sources.

4. Funding Principle: Limit transfers from the general and utility operating funds for capital purposes

Transfers from the Town's operating funds (the general fund and the utility fund) are funding sources that can be directed toward one-time capital needs. Staff monitors the amount of available fund balance (or savings) within the operating funds throughout the course of each fiscal year. Project funding needs are evaluated during the budget process and operating fund transfers of this "one time" funding source are conservatively applied to support capital needs.

By the Numbers - The FY 2018 Recommended Capital Improvements Budget

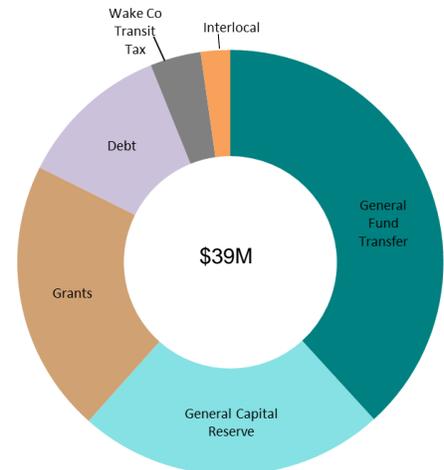


The \$68,553,284 Fiscal Year 2018 recommended capital improvements budget (CIB) represents a 25% decrease from the FY 2017 adopted CIB. The primary reason for this decrease relates to the timing of various water, sewer, fire and downtown projects which led to a greater funding need in FY 2017 versus FY 2018.

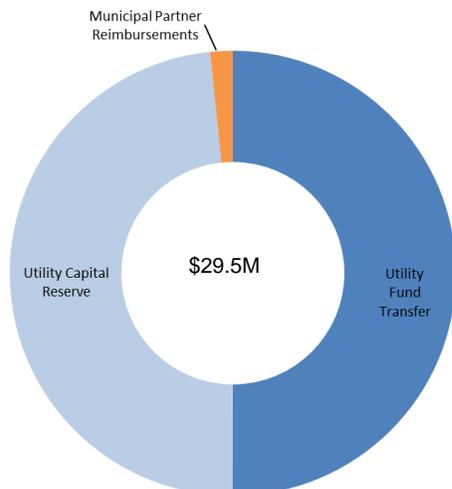
General Capital Project Funding

FY 2018 recommended general capital project appropriations total \$39,020,650. These appropriations are supported by a variety of funding sources, including:

- \$ 14.9 million of general fund transfer funding
- \$ 9.1 million of general capital reserve revenue and fund balance appropriations
- \$ 8.1 million of grant funding
- \$ 4.6 million of debt funds
- \$ 1.5 million of Wake County Transit tax funds
- \$872,500 of interlocal funding from Wake County



Utility Capital Project Funding

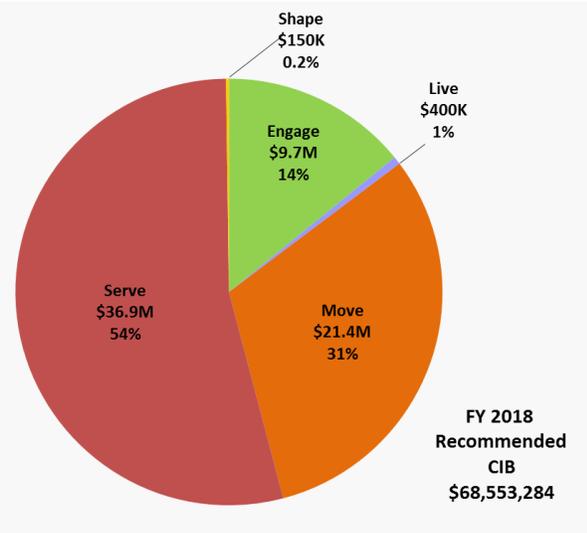
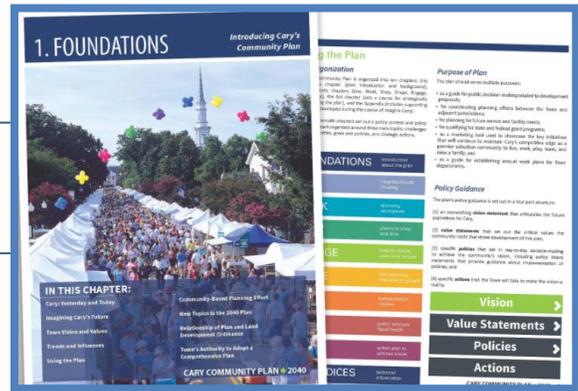


Utility capital project recommended appropriations total \$29,532,634 in FY 2018. The following funding sources are utilized to make these appropriations possible:

- \$14.8 million of utility fund transfer funding
- \$14.3 million of utility capital reserve fund balance appropriations
- \$481,850 of municipal partner reimbursements



FY 2018 Capital Projects – Where Imagination and Infrastructure Planning Come Together



The \$68.6 million recommended FY 2018 capital appropriation supports a wide variety of capital projects aligned with the opportunities, values and policy directions set forth by the Imagine Cary Community Plan. Having presented the Town’s funding principles, practices and available recommended revenue sources guiding the development of the FY 2018 CIB, it’s important to remember that the projects funded in this budget aren’t simply infrastructure improvements. Rather, they are actions that directly support the vision set forth by our guiding policy document.

The table to the left presents the total FY 2018 capital budget by the thematic chapters of the Cary Community Plan. The *Serve*, *Move* and *Engage* themes represent 99% of the Town’s FY 2018 capital appropriations. The following sections provide a closer look at a number of

projects (or actions) funded in the budget year. For detailed information on every project funded in FY 2018, please see the CIB Projects section of this document.

SERVE

Meeting Community Needs

The *Serve* theme within the Cary Community Plan focuses on the Town’s responsibility to plan and provide essential public services to residents and businesses. Water, sewer, police, fire, storm drainage, general Town facility maintenance and technology infrastructure projects are all examples of actions the Town takes to serve its community in the best manner possible. FY 2018 appropriations to the *Serve* theme total \$36,936,284 making up 54% of the year’s total capital budget.

FY 2018 Serve Highlights

- \$1,590,000 Maynard Rd Water Line Reinforcement– Southeast (Water)
- \$5,000,000 Upgrade Water Lines (Water)
- \$1,100,000 Upper Crabtree Creek Pump Station and Force Main (Sewer)
- \$6,539,223 Sewer System Repair/Rehabilitation (Sewer)
- \$ 650,000 Fire Pumper Truck Replacement – #1706 (Fire)
- \$ 500,000 Stormwater Condition Assessment and Rehabilitation (General Government)
- \$ 300,000 Stormwater Drainage Project – Town Properties (General Government)
- \$ 250,000 Stormwater Drainage Project – Private Assistance (General Government)
- \$ 335,350 ADA Improvements at Town Facilities (General Government)
- \$ 770,000 Roof Assessment and Rehabilitation Program (General Government)

CARY VALUES:

Respecting Nature and the Environment
Cary will preserve and protect our environment. This includes being good stewards of our finite natural resources. Paramount is the conservation of water resources and the protection of watersheds, including Jordan Lake, to maintain a high quality water supply for our future.

Providing Comprehensive and Top Quality Facilities and Infrastructure
Cary will provide comprehensive facilities and utility services to residents, businesses and institutions. Public infrastructure is provided in conjunction with development, coordinated with private investments, and is well-maintained.

Providing High Quality Public Services
Cary will provide high quality public services and customer service that continue the Town’s legacy of excellence, including being one of the safest mid-sized communities in the nation. The Town’s quality services yield a clean and attractive community, a reputation for open communication and responsiveness, and a supportive environment for residents and businesses.

CARY COMMUNITY PLAN 2040

MOVE

Providing Transportation Choices

The Cary Community Plan's *Move* theme recognizes that Cary has a strong existing transportation network with well-designed streets, good sidewalk coverage, a variety of bicycle facilities and an efficient transit system. The goal of the *Move* segment of the plan is to ensure that continued investment in infrastructure and implementation of policies improves mobility for Cary residents, workers and visitors. The Town's transportation capital project category supports this goal. FY 2018 appropriations to the *Move* theme total \$21,375,500 making up 31% of the year's total capital budget.

FY 2018 *Move* Highlights

- \$6,500,000 Street Improvement Project
- \$1,000,000 Sidewalk and Pedestrian Improvements
- \$6,397,500 Reedy Creek Rd Widening – NE Maynard Rd to N Harrison Ave
- \$1,000,000 GoCary Regional Operations and Maintenance Facility
- \$3,000,000 Carpenter Fire Station Rd/CSX Rail Grade Separation
- \$1,100,000 Carpenter Fire Station Rd Widening (NC 55 to E of Cameron Pond)

CARY VALUES:

An Efficient System for All Users

Cary will continue to provide an attractive network of streets and a wide range of functional and well-designed facilities for all mode choices - driving, walking, biking, and transit. This multimodal system will facilitate moving into, out of, and around the community with a design emphasis on people and the human experience.

We dedicate Chapter 7 - MOVE - to Town of Cary Transportation and Facilities Director Lori Cove, P. E.

As an accomplished engineer, dedicated public servant, and six-time Ironman, no one better understands or appreciates the life-changing opportunities that extraordinary transportation offers to each person in our community. Her hard work will help keep Cary great for generations to come, and her friendship, strength, and inspiration will remain with us always.

CARY COMMUNITY PLAN 2040

ENGAGE

Experiencing the Cary Community

The *Engage* theme is built upon the Town's Parks, Recreation and Cultural Resources Master Plan, the 2012 Public Art Master Plan and the Historic Preservation Master Plan which present the Town's policies for each of these areas.

Recent surveys have shown that Cary residents place a high value on the Town's parks and recreation facilities and that making improvements and/or renovating existing facilities is a high priority. Due to the local trend showing an aging and culturally diversifying population, Cary will strive to enhance recreational opportunities through programming (such as fitness, heritage, environmental education and science, technology, engineering and math education, and therapeutic and specialized recreation for seniors) and the exploration of new facilities to meet the growing and changing recreational needs.

The Parks, Recreation and Cultural Resources (PRCR) project category, along with elements of the general government project category, support the Town's *Engage* efforts. FY 2018 appropriations to the *Engage* theme total \$9,691,500 making up 14% of the Town's total capital budget.

FY 2018 *Engage* Highlights

- \$1,000,000 Historic Town Facility Preservation
- \$4,275,000 Black Creek Greenway Renovation – Phases I, II and V
- \$ 500,000 P-006 Neighborhood Park
- \$ 850,000 P-010 Neighborhood Park
- \$ 270,000 Park and Greenway Renovations
- \$ 250,000 Greenway Resurfacing Projects

CARY VALUES:

Creating a Vibrant Arts and Cultural Environment

Cary will create a vibrant cultural and arts environment through performances, exhibits, festivals and places.

Preserving Historic Resources

Cary will preserve sites, structures and traditions that help convey the history of Cary as a source of community pride.

Providing Extensive and High Quality Parks and Recreation

Cary will provide extensive and high quality recreation services and facilities as a signature of the community, helping to make Cary a desirable place to live, supporting strong property values, and promoting healthy living. Opportunities for recreation include a well-connected greenway network, an expansive system of parks and natural areas of all sizes, and a diversity of recreational facilities and offerings for residents and visitors of all ages and abilities.

CARY COMMUNITY PLAN 2040

LIVE

Fostering Strong Neighborhoods

The *Live* theme focuses on ensuring that there are adequate housing choices for Cary's changing population, while maintaining the traditional character of Cary.

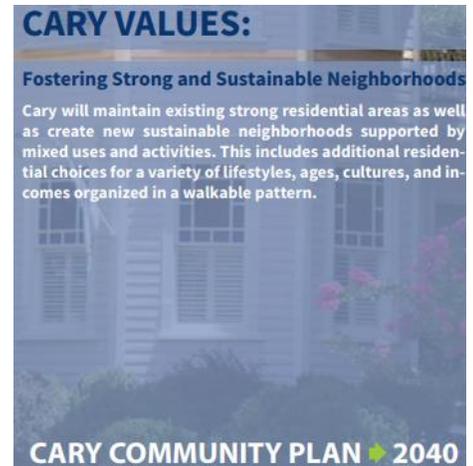
Cary has a national reputation as being a premier suburban community located within the heart of the Research Triangle Region. The Town has been very successful at providing high-quality single-family housing for families in desirable neighborhoods. The challenge moving forward is to provide quality, housing options in convenient locations that can serve households seeking a different lifestyle in Cary.

Another factor influencing the *Live* theme is the fact that Cary had a significant housing boom over the last two decades, comprising nearly 90% of the housing stock in Cary's neighborhoods. In 2013, the Town had approximately 4,000 homes that were more than 40 years old, most of them located proximate to downtown. By 2032, it is estimated that 23,000 homes will be 40 years old. Looking long-term, these aging neighborhoods will need maintenance and investment to maintain attractiveness to new home buyers and renters.

The general government capital project category supports the Town's *Live* efforts. FY 2018 appropriations to the *Live* theme total \$400,000 making up 1% of the Town's total capital budget. The Town also receives significant funding from the Community Development Block Grant program for affordable housing initiatives which are reflected in the Town's annual operating budget.

FY 2018 *Live* Highlights

- \$100,000 AH – Downtown Rehab and Façade Improvement Program
- \$300,000 AH – Owner-Occupied Housing Rehabilitation Program

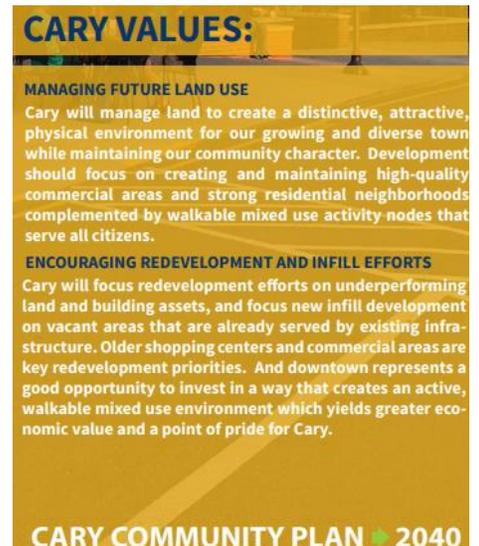


SHAPE

Guiding Community Growth

Once a small crossroads town, the Town of Cary has grown to be a mid-sized community of national distinction. Since 1990, Cary's growth tripled from more than 43,000 in 1990 to more than 133,000 in 2010, making it the seventh most populated municipality in North Carolina. While the 5% yearly growth rate experienced over the last few decades is expected to decline, the Town is projected to continue to grow. By 2040, regional projections suggest that the Town will reach a population of 193,000. The Town has an opportunity today to define the way in which new housing, employment, shopping, and public services are provided to the new 50,000 residents that will likely call Cary home in the future.

Town-wide growth has propelled the Cary community forward and created high-value living and working options. All the while, the downtown area continues to maintain its historic character and central civic focus. Downtown has been one of the primary areas in Cary for focused investment. Recent efforts to bring greater vitality and activity to Cary's downtown have resulted in strategic public investments that have improved and modernized street infrastructure, revitalized historic buildings, and enhanced civic space for the Town's residents and visitors. Today, business representatives and community



members are recognizing the need for downtown expansion and redevelopment that builds off of the area's existing assets and adds more dining, entertainment, housing, and employment options in Downtown Cary. Many opportunities exist to transform downtown into a vibrant destination that accommodates live, work, play, and learn opportunities. A short walk between Cary's unique destinations, diverse supporting neighborhoods, and a future downtown regional transit hub would make it easier for workers and residents to access opportunities in and around the heart of Cary.

The downtown project category supports the Town's capital-oriented *Shape* efforts. FY 2018 appropriations to the *Shape* theme total \$150,000 making up 0.2% of the Town's total capital budget. Since FY 2011, the Town has appropriated over \$28 million for downtown revitalization infrastructure initiatives.

FY 2018 *Shape* Highlights

- \$150,000 DT – Downtown Park – Future Phases Master Plan

CHANGES TO FISCAL YEAR 2018 RECOMMENDED CAPITAL IMPROVEMENTS BUDGET

The FY 2018 recommended capital budget, as modified by the changes identified below, was adopted by the Cary Town Council for consideration at its regularly scheduled meeting on June 22, 2017.

Capital Budget

General

1. Adjust FY 2018 revenue budgets by the following amounts to reflect updated revenue estimates conducted in late May 2017:

Vehicle License Fees	(\$115,030)
Interest Income	\$66,325
Transportation Development Fees	\$90,388

2. Appropriate an additional \$20,000 of anticipated FY 2018 Powell Bill revenue to the Sidewalk and Pedestrian Improvement project bringing total FY 2018 appropriations to this project to \$1,000,000.

Utility

3. Increase FY 2018 revenue budgets by the following amounts to reflect updated revenue estimates conducted in late May 2017:

Water Development Fees	\$172,532
Sewer Development Fees	\$388,262
Interest Income	\$473,050



UTILITY CAPITAL IMPROVEMENTS BUDGET ORDINANCE FISCAL YEAR 2018

BE IT ORDAINED by the Town Council of the Town of Cary, North Carolina, that the following Utility Capital Improvements, anticipated revenues and project appropriations and Utility Capital Reserve Fund Budget, are hereby adopted for the operation of the town government and its activities for the fiscal year beginning July 1, 2017 and ending June 30, 2018.

SUMMARY	
Water Capital Improvements Fund	\$16,152,447
Sewer Capital Improvements Fund	<u>13,380,187</u>
Total	<u>\$29,532,634</u>

Section 1. Water Capital Improvements Fund Projects	<u>\$16,152,447</u>
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REVENUES

RESTRICTED FUND BALANCE	\$2,597,447
UNRESTRICTED FUND BALANCE	1,489,810
UTILITY FUND TRANSFER	11,583,340
MUNICIPAL REIMBURSEMENT - TOWN OF APEX	481,850
TOTAL REVENUES	<u>\$16,152,447</u>

Section 2. Sewer Capital Improvements Fund Projects	<u>\$13,380,187</u>
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REVENUES

RESTRICTED FUND BALANCE	\$8,443,112
UNRESTRICTED FUND BALANCE	1,732,475
UTILITY FUND TRANSFER	3,204,600
TOTAL REVENUES	<u>\$13,380,187</u>

Section 3. Utility Capital Reserve Fund Budget

The following Revenues and Inter-Fund Transfers are hereby authorized:

REVENUES

WATER DEVELOPMENT FEE	\$3,671,150
SEWER DEVELOPMENT FEE	5,310,269
INTEREST EARNINGS	1,921,590
APPROPRIATION FROM FUND BALANCE:	
UNRESTRICTED UTILITY CAPITAL RESERVE FUND BALANCE	
UNRESTRICTED	3,222,285
RESTRICTED UTILITY CAPITAL RESERVE FUND BALANCE	
WATER DEVELOPMENT FEES	2,597,447
SEWER DEVELOPMENT FEES	8,443,112
TOTAL REVENUES	<u>\$25,165,853</u>

INTER-FUND TRANSFERS

TRANSFER TO WATER CAPITAL PROJECTS FUND	\$4,087,257
TRANSFER TO SEWER CAPITAL PROJECTS FUND	10,175,587
RESERVE FOR CAPITAL NEEDS:	
WATER DEVELOPMENT FEES	3,671,150
SEWER DEVELOPMENT FEES	5,310,269
INTEREST EARNINGS	1,921,590
TOTAL INTER-FUND TRANSFERS	<u>\$25,165,853</u>

Section 4. Fee Schedule

The fees as contained in Attachment A are hereby approved and adopted for fiscal year 2018.

Section 5. Transfer From Utility Capital Reserve Fund

The Budget Officer is hereby authorized to make transfers from the Utility Capital Reserve Fund to the appropriate capital improvements fund(s) in the amount specified above.

Section 6. Authorizations and Restrictions on the Budget Officer

- Interfund transfer of monies, except as noted in Section 5, shall be accomplished by Town Council authorization only.
- The Budget Officer is hereby authorized to make transfers within funds including those appropriations established by ordinances adopted prior to the effective date of this ordinance.
- All purchasing policies and laws, as related to the acquisition, construction, or purchase of the above capital improvements projects, remain in full force and effect.

Section 7. Utilization of Capital Improvements Budget Ordinance

This ordinance shall be the basis of the financial plan for capital improvements projects for the Cary municipal government during the 2018 fiscal year. The above revenue and expenditure authorizations shall extend from year to year until each individual project is complete.

Section 8. Statutory Definition of Project Ordinance

This Capital Improvements Budget Ordinance is adopted in conformance with Section 159-13.2 of the Local Government Budget and Fiscal Control Act.

Section 9. Other Transfers and Adjustments

The following special transfers/adjustments are occurring through approval of the FY 2018 capital improvements budget:

A total of \$26,878,515 is being transferred from utility fund fund balance to various water and sewer projects selected at the discretion of the Budget Officer. These utility fund balance transfers will replace currently budgeted debt. Replacing revenue bond debt with utility fund fund balance as indicated below will reduce future debt service obligations with no net change to project appropriations.

Water	\$14,352,500
Sewer	\$12,526,015
Total	\$26,878,515

FISCAL YEAR 2018 UTILITY RELATED CAPITAL FEES

Utility related capital fees recoup the Town's past and future investments in utility systems associated with the capacity of new users or increased capacity of existing users. These fees are associated with the capital cost of the utility systems for water, sanitary sewer and reclaimed water which includes but is not limited to infrastructure such as lines, treatment plants, pumping systems, tanks, control systems and maintenance facilities.

These fees are collected when new demand is generated through building permits for new development, requests for new meter boxes, requests for meter installation, or requests for new or changed customer accounts and are due at time of building permit issuance. For new development, the fee shall be paid based on proposed use and size of structure. For existing development, the fee shall be paid based on the increased demand only (reviewing prior use(s) vs. proposed use) at the current fee rate. Examples of existing development that increase demand include but are not limited to alterations, additions, added systems like irrigation or manufacturing processes, fit- ups, remodeling, renovations or changes in use. Reimbursements will not be made for reductions in demand as future use changes could subsequently increase demand to the original level.

These charges are in addition to water and sewer tap charges (see table of Utility Connection Fees in the Operating Budget Fee Schedule). The schedule of charges for the water development fee is authorized by Town Code Chapter 36.

For new residential construction, water, sewer and reclaimed water permitting and development fees are based on the total area under roof in square feet for each meter for residential property structures. For residential additions, fees are based on the total area under roof added to the original structure.

For non-residential properties, the fees listed below in Attachment A, Section C are based on commercial development use/type and size of structure (the total area under roof in square feet). For non-residential additions, fees are based on the total area under roof added to the original structure. For non-residential uses not specified in Section C below, the Town will require sealed demand estimates from design professionals indicating peak day water demand (potable and/or reclaimed) and average day sewer demand. The Town of Cary Inspections and Permits Department may be contacted at (919) 469-4043 for questions and/or assistance with development fee calculations.

A. RESIDENTIAL WATER DEVELOPMENT FEE:

Equivalent dwelling unit (EDU) rate for potable water using 435 gallons on a peak day is \$1,805 for all areas served by Town of Cary utilities.

RESIDENTIAL WATER DEVELOPMENT FEES	
<u>Square Feet/Meter/Use</u>	<u>Fee (All Areas)</u>
Single Family < 1,700 square feet	\$1,183
Single Family 1,701 - 2,400 square feet	1,471
Single Family 2,401 - 3,100 square feet	1,805
Single Family 3,101 - 3,800 square feet	2,173
Single Family > 3,800 square feet	2,783
Apartments, per unit	1,164
Irrigation (potable water), per lot	1,161

B. RESIDENTIAL SEWER DEVELOPMENT FEE:

Equivalent dwelling unit (EDU) rate is \$3,456 for sewer using 348 gallons on an average day for all areas served by Town of Cary utilities.

RESIDENTIAL SEWER DEVELOPMENT FEES	
<u>Square Feet/Meter/Use</u>	<u>Fee (All Areas)</u>
Single Family < 1,700 square feet	\$2,118
Single Family 1,701 - 2,400 square feet	2,967
Single Family 2,401 - 3,100 square feet	3,456
Single Family 3,101 - 3,800 square feet	3,855
Single Family > 3,800 square feet	4,904
Apartments, per unit	2,315

C. NON-RESIDENTIAL WATER AND SEWER DEVELOPMENT FEES:

Non-residential water and sewer development fees are based upon the rate of \$4.15 / peak day gallons for potable water and \$9.93 / average day gallons for sewer for all areas served by Town of Cary utilities. Contact the Inspections and Permits Department for uses not specified below.

TYPE OR USE OF ESTABLISHMENT	UNIT	WATER DEVELOPMENT FEE	SEWER DEVELOPMENT FEE
Retail - Large (>80,000 sq. ft.)	1,000 sq. ft.	\$181	\$262
Retail - Medium (20,000-80,000 sq. ft.)	1,000 sq. ft.	\$225	\$327
Retail - Small (<20,000 sq. ft.)	1,000 sq. ft.	\$338	\$491
Laundromat, self service	1,000 sq. ft.	\$7,961	\$11,545
General/Medical office - Large (>20,000 sq. ft.)	1,000 sq. ft.	\$136	\$197
General/Medical office - Medium (5,000-20,000 sq. ft.)	1,000 sq. ft.	\$181	\$262
General/Medical office - Small (<5,000 sq. ft.)	1,000 sq. ft.	\$270	\$392
Country club	1,000 sq. ft.	\$519	\$753
Industrial, factory	1,000 sq. ft.	\$169	\$245
Drug store	1,000 sq. ft.	\$83	\$120
Warehouse	1,000 sq. ft.	\$85	\$123
Mini-Warehouse	1,000 sq. ft.	\$8	\$11
Church, Worship Center	1,000 sq. ft.	\$136	\$197
Full service restaurant	1,000 sq. ft.	\$3,057	\$4,434
Single service item restaurant	1,000 sq. ft.	\$796	\$1,154
Carry out restaurant	1,000 sq. ft.	\$136	\$197
Hotel, motel	1,000 sq. ft.	\$803	\$1,164
Laundry, not self service	1,000 sq. ft.	\$1,939	\$2,812
Veterinary hospital, boarding, kennel	1,000 sq. ft.	\$434	\$630
Hospital	1,000 sq. ft.	\$1,445	\$2,095
Nursing home	1,000 sq. ft.	\$1,196	\$1,735
Day care or school	1,000 sq. ft.	\$624	\$906
Recreation, with pool	1,000 sq. ft.	\$4,128	\$5,986
Recreation, no pool	1,000 sq. ft.	\$514	\$746
Gas station, no car wash	1,000 sq. ft.	\$331	\$480
Gas station with car wash	1,000 sq. ft.	\$9,344	\$13,550
Full or self service car wash	1,000 sq. ft.	\$4,288	\$6,218
Stadia, auditoriums, theatres	1,000 sq. ft.	\$313	\$454
Potable Water Irrigation	1,000 irrigated	\$734.23	-

D. RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES:

Equivalent dwelling unit (EDU) rate is \$581 for reclaimed water using 280 gallons on a peak day for all areas served by Town of Cary utilities.

RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES	
<u>Use</u>	<u>Fee (All Areas)</u>
Irrigation (reclaimed water), per lot	\$581
Reclaimed water for uses other than irrigation	Contact the Inspections and Permits Department for uses of reclaimed water other than irrigation. Reclaimed water development fees are calculated based on a rate of \$2.08 / peak day gallons.

E. NON-RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES:

Based upon the high degree of variability in non-residential uses and flow rates, these development fees are calculated by Town staff using a rate of \$2.08 / peak day gallons for reclaimed water for all areas served by Town of Cary utilities.

NON-RESIDENTIAL RECLAIMED WATER DEVELOPMENT FEES	
<u>Use</u>	<u>Fee (All Areas)</u>
Reclaimed water irrigation	\$368 / 1,000 irrigated sq ft

F. SPECIAL UTILITY AREAS: In areas designated by the Town Council as a “Special Utility Area,” a combined water and sewer development fee shall be collected. The combined development fee shall be the combined fee for both water and sewer development fees based on the schedule of charges for development fees.

G. STANDARD UNIT PRICES FOR OVERSIZE REIMBURSEMENT REQUESTS:

OVERSIZE REIMBURSEMENT CHARTS												
DIP												
LINE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Size Required for Project										
		4	6	8	10	12	16	18	20	24	30	
	4	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	10	20	15	3	-	-	-	-	-	-	-	-
	12	22	17	5	2	-	-	-	-	-	-	-
	16	42	37	25	22	20	-	-	-	-	-	-
	18	47	42	30	27	25	5	-	-	-	-	-
	20	52	47	35	32	30	10	5	-	-	-	-
	24	67	62	50	47	45	25	20	15	-	-	-
	30	87	82	70	67	65	45	40	35	20	-	-

C900/905 - applies only to Reclaimed Water											
LINE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Size Required for Project									
		4	6	8	10	12	16	18	20	24	30
	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	10	20	15	3	-	-	-	-	-	-	-
	12	22	17	5	2	-	-	-	-	-	-
	16	42	37	25	22	20	-	-	-	-	-
	18	47	42	30	27	25	5	-	-	-	-
	20	52	47	35	32	30	10	5	-	-	-
	24	67	62	50	47	45	25	20	15	-	-
	30	87	82	70	67	65	45	40	35	20	-

PVC - SDR 35 – applies only to Sewer								
	Size (in)	Size Required for Project						
		8	10	12	15	18	21	24
	8	-	-	-	-	-	-	-
	10	6	-	-	-	-	-	-
	12	7	-	-	-	-	-	-
	16	11	5	4	-	-	-	-
	18	12	6	5	-	-	-	-
	20	19	13	12	8	7	-	-
	24	26	20	19	15	14	7	-

VALVES											
LINE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Size Required for Project									
		4	6	8	10	12	16	18	20	24	30
	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	10	675	500	275	-	-	-	-	-	-	-
	12	1,175	1,000	775	500	-	-	-	-	-	-
	16	4,950	4,775	4,550	4,275	3,775	-	-	-	-	-
	18	6,675	6,500	6,275	6,000	5,500	1,725	-	-	-	-
	20	11,175	11,000	10,775	10,500	10,000	6,225	4,500	-	-	-
	24	17,175	17,000	16,775	16,500	16,000	12,225	10,500	6,000	-	-
30	38,975	38,800	38,575	38,300	37,800	34,025	32,300	27,800	21,800	-	

BORE AND JACK											
CARRIER PIPE SIZE REQUIRED BY THE TOWN OF CARY	Size (in)	Carrier Pipe Size Required for Project									
		4	6	8	10	12	16	18	20	24	30
	4	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-
	10	200	150	30	-	-	-	-	-	-	-
	12	220	170	50	20	-	-	-	-	-	-
	16	420	370	250	220	200	-	-	-	-	-
	18	470	420	300	270	250	50	-	-	-	-
	20	520	470	350	320	300	100	50	-	-	-
	24	670	620	500	470	450	250	200	150	-	-
	30	870	820	700	670	650	450	400	350	200	-

GENERAL CAPITAL IMPROVEMENTS BUDGET ORDINANCE FISCAL YEAR 2018

BE IT ORDAINED by the Town Council of the Town of Cary, North Carolina, that the following General Capital Improvements anticipated revenues and project appropriations, and General Capital Reserve Fund Budget, are hereby adopted for the operation of the town government and its activities for the fiscal year beginning July 1, 2017 and ending June 30, 2018.

SUMMARY	
Transportation Capital Improvements Fund	\$21,615,500
Fire Capital Improvements Fund	650,000
Parks, Recreation, and Cultural Resources Capital Improvements Fund	8,820,500
General Government Capital Improvements Fund	7,954,650
Downtown Capital Improvements Fund	0
Total	<u>\$39,040,650</u>

Section 1. Transportation Capital Improvements Fund Projects	<u>\$21,615,500</u>
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REVENUES

RESTRICTED FUND BALANCE	\$5,581,078
RESTRICTED REVENUE	453,422
UNRESTRICTED FUND BALANCE	25,000
WAKE COUNTY TRANSIT TAX FUNDS	1,538,000
GRANT FUNDS	5,518,000
GENERAL FUND TRANSFER	4,500,000
2012 GENERAL OBLIGATION BOND REFERENDUM (TRANSFERRED)	4,000,000
TOTAL REVENUES	<u>\$21,615,500</u>

Section 2. Fire Capital Improvements Fund Projects	<u>\$650,000</u>
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REVENUES

UNRESTRICTED FUND BALANCE	\$97,500
INSTALLMENT PURCHASE DEBT	552,500
TOTAL REVENUES	<u>\$650,000</u>

Section 3. Parks, Recreation, and Cultural Resources Capital Improvements Fund Projects	<u>\$8,820,500</u>
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REVENUES

RESTRICTED FUND BALANCE	\$1,350,000
UNRESTRICTED FUND BALANCE	743,799
GRANT FUNDS	2,625,000
INTERLOCAL REVENUE	872,500
GENERAL FUND TRANSFER	3,229,201
TOTAL REVENUES	<u>\$8,820,500</u>

Section 4. General Government Capital Improvements Fund Projects	<u>\$7,954,650</u>
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REVENUES

UNRESTRICTED FUND BALANCE	\$828,300
GENERAL FUND TRANSFER	7,126,350
TOTAL REVENUES	<u>\$7,954,650</u>

Section 5. Downtown Capital Improvements Fund Projects	<u>\$0</u>
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REVENUES

No Funds Appropriated to Downtown Capital Improvements Projects in FY 2018	\$0
TOTAL REVENUES	<u>\$0</u>

Section 6. General Capital Reserve Fund Budget

The following Revenues and Inter-Fund Transfers are hereby authorized:

REVENUES	
VEHICLE LICENSE FEES	\$1,199,279
POWELL BILL FUNDS	3,772,111
INTEREST EARNED	1,313,235
UTILITY FRANCHISE FEES	616,272
TRANSPORTATION DEVELOPMENT FEES	1,300,384
TRIANGLE FUTBOL CLUB PAYMENT	181,467
APPROPRIATION FROM FUND BALANCE:	
POWELL BILL	1,856,578
VEHICLE LICENSE FEES	1,345,000
TRANSPORTATION DEVELOPMENT FEES	2,379,500
RECREATION-IN-LIEU WEST	1,350,000
UTILITY FRANCHISE FEES	358,799
UNRESTRICTED INTEREST EARNINGS	1,335,800
TOTAL REVENUES	<u>\$17,008,425</u>
INTERFUND TRANSFERS	
TRANSFER TO TRANSPORTATION CAPITAL PROJECTS FUND	\$6,059,500
TRANSFER TO FIRE CAPITAL PROJECTS FUND	97,500
TRANSFER TO PARKS & REC CAPITAL PROJECTS FUND	2,093,799
TRANSFER TO GENERAL GOVERNMENT CAPITAL PROJECTS FUND	828,300
TRANSFER TO DOWNTOWN CAPITAL PROJECTS FUND	-
RESERVE FOR CAPITAL NEEDS:	
TRANSPORTATION DEVELOPMENT FEES	1,300,384
POWELL BILL	3,318,689
VEHICLE LICENSE FEES	1,199,279
UNRESTRICTED INTEREST EARNINGS	1,313,235
UTILITY FRANCHISE FEES	616,272
TRIANGLE FUTBOL CLUB PAYMENT	181,467
TOTAL INTER-FUND TRANSFERS	<u>\$17,008,425</u>

Section 7. Transfer From Capital Reserve Fund

The Budget Officer is hereby authorized to make transfers from the Capital Reserve Fund to the appropriate capital improvements fund(s) in the amount specified above.

Section 8. Fee Schedule

The fees as contained in Attachment A are hereby approved and adopted for Fiscal Year 2018.

Section 9. Authorizations and Restrictions on the Budget Officer

- A. Interfund transfer of monies, except as noted in Section 7, shall be accomplished by Town Council authorization only.
- B. The Budget Officer is hereby authorized to make transfers within funds including those appropriations established by ordinances adopted prior to the effective date of this ordinance.
- C. All purchasing policies and laws, as related to the acquisition, construction, or purchase of the above capital improvements projects, remain in full force and effect.

Section 10. Utilization of Capital Improvements Budget Ordinance

This ordinance shall be the basis of the financial plan for capital improvements projects for the Cary municipal government during the 2018 fiscal year. The above revenue and expenditure authorizations shall extend from year to year until each individual project is complete.

Section 11. Statutory Definition of Project Ordinance

This Capital Improvements Budget Ordinance is adopted in conformance with Section 159-13.2 of the Local Government Budget and Fiscal Control Act.

Section 12. Other Transfers and Adjustments

The following special transfers and/or adjustments are occurring through approval of the FY 2018 capital improvements budget:

Transportation

\$4,000,000 of appropriated General Obligation Bond referendum is being transferred from the existing ST1206 Green Level West Road Widening project to the following Town of Cary capital projects as noted below:

- \$3,000,000 to the existing ST1204 Carpenter Fire Station Road/CSX Rail Grade project
- \$1,000,000 to the new FY 2018 Street Improvements Project

FISCAL YEAR 2018 GENERAL CAPITAL RELATED FEES

A. TRANSPORTATION DEVELOPMENT FEES

The Town of Cary charges transportation development fees for properties developing within the Town or its extraterritorial jurisdiction (ETJ). Transportation development fees are levied at the time of permit issuance in order to help address the costs associated with the transportation infrastructure needs of new development. These fees vary based on residential, multi-family and commercial development type and size.

For more details related to the Town's transportation development fees, see section 7.11 of the Town of Cary's Land Development Ordinance at

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

Land Use Type	Unit	Central Zone	Base Zone
Single-Family Detached	Dwelling	\$1,103	\$1,573
Single-Family Attached (Town Homes)	Dwelling	\$574	\$818
Multi-Family (Apartments & Condos)	Dwelling	\$684	\$975
Residential Care Facility	Bed	\$180	\$256
Hotel/Motel	Room	\$400	\$569
Retail/Commercial			
General Retail/Shopping Center	1,000 sq. ft.	\$1,148	\$1,637
ATM (Stand-Alone)	Each	\$1,343	\$1,914
Bank	1,000 sq. ft.	\$1,178	\$1,679
Restaurant, Fast Food	1,000 sq. ft.	\$3,520	\$5,017
Restaurant, Sit-Down	1,000 sq. ft.	\$1,313	\$1,871
Office/Institutional			
Office	1,000 sq. ft.	\$1,483	\$2,113
Hospital	1,000 sq. ft.	\$759	\$1,082
Library	1,000 sq. ft.	\$674	\$961
Church or Place of Worship	1,000 sq. ft.	\$344	\$491
Day Care Center	1,000 sq. ft.	\$1,148	\$1,637
Industrial			
Industrial Park	1,000 sq. ft.	\$869	\$1,238
Warehouse	1,000 sq. ft.	\$325	\$463
Mini-Storage	1,000 sq. ft.	\$190	\$271
Recreational			
Golf Course	Hole	\$2,156	\$3,074
Park/General Recreation	Acre	\$60	\$85
Recreational/Swim Center	1,000 sq. ft.	\$2,027	\$2,889
Tennis Court	Court	\$2,866	\$4,085

B. VEHICLE LICENSE FEES

The fee for registration of motor vehicles, as required in Town Code Chapter 12, Article II, Section 12-27, shall be fifteen dollars (\$15.00). Ten dollars of the fee funds general transportation projects through the general capital reserve fund, and five dollars of the fee supports C-Tran operations through the transit fund.

C. PAYMENT-IN-LIEU FEES

Park and Greenway Payments-in-Lieu – Single Family Dwelling Units

The Town of Cary's Land Development Ordinance requires developers to donate at least 1/35th of an acre of land for each traditional single-family dwelling unit planned in a subdivision plat or development. Should the land that a developer plans to dedicate lie within a Flood Hazard Area or have slopes of greater than 15 percent, land should be dedicated at a rate of at least 1/20 of an acre per dwelling unit.

Per the Town's Land Development Ordinance, the payment of fees in-lieu of the dedication of land may occur at the request of the subdivider or developer. In most instances, payments-in-lieu of land dedication must be paid prior to recording any lots in the subdivision. In some cases, payment of fees in-lieu of land dedication may be required by the Town Council at the time of preliminary plat approval or master land use plan approval.

Park and Greenway Payments-in-Lieu – Multi-Family Dwelling Units

The Town's Land Development Ordinance requires developers of multi-family dwelling units not requiring subdivision plan approval to provide funds where the Town may acquire recreational land or areas to serve the development or more than the multi-family development or residential subdivision. The multi-family recreation fund payment must be equal to 65% of the five-year rolling average subdivision recreation fund payment per dwelling unit. A combination of partial payment of funds and partial dedication of land may be required in instances where the Town Council determines that this combination is in the best interest of the citizens of the area to be served. Land to be dedicated in lieu of payment of funds must be equal to 1/55th of an acre for each dwelling unit for which dedication is to be made in lieu of fund payment. Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/40th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat for the dedicated parcel.

For more details related to the Town's park and greenway land dedication and/or payment-in-lieu requirements, see sections 8.2.3 and 8.2.4 of the Town of Cary's Land Development Ordinance at:

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

Street and Sidewalk Payments-in-Lieu

The Town of Cary's Land Development Ordinance requires that developers of subdivisions construct street and sidewalk improvements within their developments and on adjacent property frontage that conform to Town standards. A payment-in-lieu of street or sidewalk construction may be made to the Town should the developer prefer not to construct the required street/sidewalk improvement. In these instances, the developer must provide the Town with a sealed engineer's estimate for the work to be constructed. The Town then reviews the estimate to ensure that it is in accordance with established standards. Should everything be in order, the payment-in-lieu request is approved by the Town and funds are accepted. Payments-in-lieu of improvements must be paid prior to issuance of the construction package. For more details related to the Town's street and sidewalk improvement requirements, see section 8.1.5 of the Town of Cary's Land Development Ordinance at:

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

Street Lighting Payments-in-Lieu

The Town of Cary's Land Development Ordinance requires that a property owner or developer install street lighting along all proposed streets, public or private, and along all existing streets which adjoin the property, in accordance with Town of Cary Policy Statement No. 13. A payment-in-lieu of street light installation may be made to the Town of Cary should the Town's Transportation and Facilities department determine that the street lights cannot be installed until a later date. In these instances, the property owner or developer must provide the Town with a sealed engineer's estimate for the lights to be installed. The Town then reviews the estimate to ensure that it is in accordance with established standards. Should everything be in order, the payment-in-lieu request is approved by the Town and funds are accepted. Payments-in-lieu of improvements must be paid prior to issuance of the construction package. For more details related to the Town's street lighting requirements, see section 8.1.5 of the Town of Cary's Land Development Ordinance at:

[http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:cary_nc](http://www.amlegal.com/nxt/gateway.dll/North%20Carolina/cary_nc/codeofordinancetownofcarynorthcarolina?f=templates$fn=default.htm$3.0$vid=amlegal:cary_nc)

CAPITAL IMPROVEMENTS BUDGET SUMMARY

The following summary presents projects funded by the Adopted Capital Improvements Budget for the Town of Cary, North Carolina for Fiscal Year 2018 which begins July 1, 2017 and ends June 30, 2018.

The Capital Improvements Budget (CIB) represents the financial plan for the acquisition and construction of capital assets. A capital asset is defined as having a value exceeding \$25,000 and a useful life of greater than three years. Exceptions to this rule exist for practical reasons. The CIB contains descriptions and cost estimates for each capital project and appropriates money for FY 2018. These funds remain available for expenditure until project completion which may extend beyond the end of Fiscal Year 2018.

The projects and their respective budgets funded in Fiscal Year 2018 are as follows:

Water Capital Improvements Fund

A.	150,000	CAWTF - Filter Pipe Gallery Piping Removal
B.	175,000	CAWTF - Laboratory Information Management System
C.	500,000	CAWTF - Process Conversion to Ozone/Biofiltration
D.	150,000	CAWTF - Residuals Transfer Pump Replacements
E.	720,000	CAWTF - Surge Tanks
F.	400,000	CAWTF - Water System Radio Software and Antennas
G.	600,000	Elevated Water Storage Tank Repainting - Carpenter Tank
H.	302,447	Extend Water Mains
I.	300,000	Harrison Elevated Water Tank Renovation
J.	200,000	Heavy Equipment Replacement - Water
K.	200,000	Infrastructure GIS Asset Data - Water
L.	1,200,000	Jenks-Carpenter/Holt Road Water Line Reinforcement
M.	40,000	Jordan Lake Partnership
N.	750,000	Kilmayne Water Storage Tank
O.	1,590,000	Maynard Road Water Line Reinforcement - Southeast
P.	520,000	Maynard Road Water Line Reinforcement - Southwest - Phase II
Q.	350,000	Morrisville Parkway Water Line Connections
R.	350,000	NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation
S.	100,000	NCDOT P-5201 Morrisville Parkway Railroad Grade Separation
T.	225,000	Plumtree Tank Modifications and Tank Repainting
U.	220,000	Tryon Road Water Line Upsizing
V.	5,000,000	Upgrade Water Lines
W.	160,000	Water Line Oversizings
X.	50,000	Water Main Condition Assessment
Y.	150,000	Water Storage Tank Repainting - Old Apex
Z.	150,000	Water System - Air Release Valve Replacements
AA.	175,000	Water System - Critical Water Line Locating and Testing
AB.	125,000	Water System - Valve Replacements
AC.	350,000	Water System Master Plan
AD.	950,000	White Oak Church Road Water Line
	\$16,152,447	Water Subtotal

Sewer Capital Improvements Fund

A.	448,200	Cleaning and Video Survey of Sewer Interceptors
B.	600,000	Heavy Equipment Replacement - Sewer
C.	200,000	I-40 Pump Station Improvements
D.	2,000,000	KCPS and MBRPS Force Main Parallel Along Green Level Church Road
E.	150,000	Miscellaneous Pump Station Grinder Exchange Rebuild/Replace
F.	150,000	NCWRF - Clarifier Equipment Repair and Replacement
G.	110,000	NCWRF - Fork Lift - New
H.	50,000	NCWRF - Improvements for Continuous Three Train Operation
I.	200,000	NCWRF - Mixer Replacements
J.	420,000	NCWRF - Partial and Full Diffused Air System
K.	167,475	Reclaimed Water Line Oversizings

CAPITAL IMPROVEMENTS BUDGET SUMMARY

Sewer Capital Improvements Fund - Continued

L.	195,000	Sanitary Sewer Oversizings
M.	100,000	SCWRF - Aeration Basin and Air Handler Repair
N.	325,000	SCWRF - Aeration Basin Blower Replacements
O.	80,000	SCWRF - Aeration Basin Recycle Pump Replacements
P.	200,000	SCWRF - Clarifier Equipment Repair and Replacement
Q.	150,000	SCWRF - Peak Flow Management Study
R.	150,000	SCWRF - Gravity Belt Thickener Rebuild
S.	56,400	SCWRF - HVAC Replacement
T.	200,000	SCWRF - Variable Frequency Drive Replacement
U.	150,000	Sewer Flow Management Modeling Scenarios
V.	5,428,112	Sewer System Repair/Rehabilitation
W.	1,100,000	Upper Crabtree Creek Pump Station and Force Main
X.	250,000	Wastewater Collection System Master Plan Update
Y.	500,000	Winding Pine Regional Pump Station, Gravity Sewer and Force Main
	<u>\$13,380,187</u>	Sewer Subtotal
	<u><u>\$29,532,634</u></u>	Total Utility CIB

Transportation Capital Improvements Fund

A.	20,000	Aviation Parkway Sidewalk Reimbursement - NE Quadrant at I-40 Interchange
B.	25,000	Bicycle Facilities Implementation
C.	85,000	Bridge and Culvert Repairs
D.	3,000,000	Carpenter Fire Station Road/CSX Rail Grade Separation
E.	1,100,000	Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)
F.	895,000	GoCary ADA Bus Stop Improvements
G.	43,000	GoCary Bus Stop Sign Replacement
H.	75,000	GoCary Capital Amenities
I.	1,000,000	GoCary Regional Operations and Maintenance Facility
J.	6,397,500	Reedy Creek Road Widening - NE Maynard Road to N Harrison Avenue
K.	1,000,000	Sidewalk and Pedestrian Improvements
L.	225,000	Spot Improvements - Based on Levels of Service, Safety and Citizen Concerns
M.	6,500,000	Street Improvement Project
N.	250,000	Street Storm Drainage System Rehabilitation
O.	400,000	Traffic Signalization Projects
P.	600,000	Transportation Feasibility Studies
	<u>\$21,615,500</u>	Transportation Subtotal

Fire Capital Improvements Fund

A.	<u>650,000</u>	Fire Pumper Replacement - #1706
	\$650,000	Fire Subtotal

Parks, Recreation and Cultural Resources Capital Improvements Fund

A.	50,000	Annie Jones Park Tennis Court Renovations
B.	48,000	Athletic Field Bleacher Replacements
C.	4,275,000	Black Creek Greenway Renovation - Phases I, II and V
D.	450,000	Cary Tennis Park Court Renovations
E.	872,500	Cary Tennis Park Improvements - Interlocal (Covered Courts and Clubhouse)
F.	150,000	DT - Downtown Park Future Phases Master Plan
G.	150,000	Dunham Park Improvements
H.	100,000	Greenway Pedestrian Structure Repair
I.	250,000	Greenway Resurfacing
J.	500,000	P-006 Neighborhood Park
K.	850,000	P-010 Neighborhood Park
L.	270,000	Park and Greenway Renovations
M.	75,000	Park, Greenway and Facility Sign Plan

CAPITAL IMPROVEMENTS BUDGET SUMMARY

Parks, Recreation and Cultural Resources Capital Improvements Fund - Continued

N.	83,000	Playground Surface Repairs/Replacement
O.	35,000	Public Art - Black Creek Greenway
P.	10,000	Public Art - P-006 Neighborhood Park
Q.	10,000	Public Art- P-010 Neighborhood Park
R.	20,000	Public Art - Parks and Greenway Amenities
S.	72,000	Tennis Court Renovations
T.	550,000	Thomas Brooks Park Field Drainage
	\$8,820,500	PRCR Subtotal

General Government Capital Improvements Fund

A.	335,350	ADA Improvements at Town Facilities
B.	100,000	AH - Downtown Rehab and Façade Improvement Program
C.	300,000	AH - Owner Occupied Housing Rehabilitation Program
D.	225,000	Application Software Replacement
E.	27,300	Conference Room Technology Upgrades
F.	110,000	Electric Vehicle Charging Station for Library Parking Deck
G.	70,000	Facility Painting Interior and Exterior
H.	1,600,000	Garmon Operations Center - Facility Improvements - Phase II
I.	600,000	Heavy Equipment Replacement
J.	21,000	Historic Preservation Implementation Activities
K.	1,000,000	Historic Town Facility Preservation
L.	120,000	HVAC Replacements and Major Maintenance
M.	101,000	Parking Lot Resurfacing
N.	100,000	Relamping Town Facilities
O.	770,000	Roof Assessment and Rehabilitation Program
P.	150,000	Sand/Salt Storage Structure
Q.	945,000	Sanitation and Recycling Truck Replacement
R.	250,000	Storm Drainage Project - Private Assistance
S.	300,000	Storm Drainage Project - Town Properties
T.	500,000	Stormwater Condition Assessment and Rehabilitation Program
U.	300,000	Town Hall Pedestrian Bridge
V.	30,000	Upgrade Pedestrian Crossings - Relocation of Push Buttons
	\$7,954,650	General Government Subtotal

Downtown Capital Improvements Fund

There are no FY 2018 appropriations to the Downtown capital appropriations category in FY 2018. However, the FY 2018 CIB does include \$100,000 within the General Government category for the AH - Downtown Rehabilitation and Facade Improvement project and \$150,000 within the PRCR category for the DT - Downtown Park Future Phases Master plan project.

-	
\$0	Downtown Subtotal
\$39,040,650	Total General CIB
\$68,573,284	Total General and Utility CIB

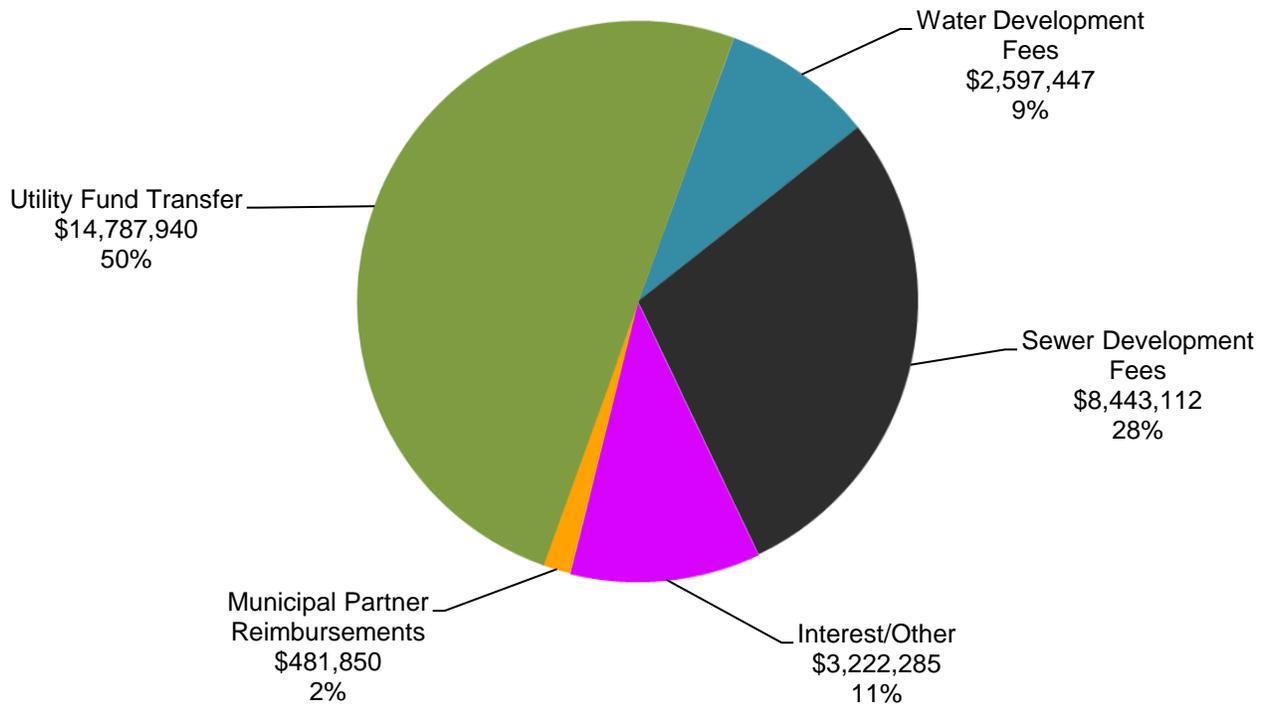
UTILITY CAPITAL RESERVE SUMMARY

	Actual 2014	Actual 2015	Actual 2016	Estimated 2017	Budget 2018
REVENUES					
Investment Earnings	872,158	885,228	1,659,453	2,106,520	2,474,001
Unrealized Loss (Gain) on Investment Earnings	(274,213)	(108,323)	(522,411)	(552,411)	(552,411)
Net Investment Earnings	597,945	776,905	1,137,042	1,554,109	1,921,590
Water Development Fee	5,382,286	4,356,029	3,906,259	4,588,938	3,671,150
Sewer Development Fee	8,584,202	6,371,970	6,155,747	6,637,836	5,310,269
Reclaimed Water Development Fee/ Payment in Lieu	36,225	21,950	271,223	137,616	---
Misc. Developer Payments	---	---	---	7,948	---
TOTAL REVENUES	14,600,658	11,526,854	11,470,271	12,926,447	10,903,009
OTHER FINANCING SOURCES (USES)					
Water Projects Fund	(16,161,729)	(8,802,645)	(9,970,988)	(3,017,619)	(4,087,257)
Sewer Projects Fund	(922,209)	723,046	(5,351,946)	(10,979,535)	(10,175,587)
Funds Returned to Fund Balance	---	724,934	5,964,795	---	---
TOTAL OTHER FINANCING SOURCES (USES)	(17,083,938)	(7,354,665)	(9,358,139)	(13,997,154)	(14,262,844)
Net Income (Loss)	(2,483,280)	4,172,189	2,112,132	(1,070,707)	(3,359,835)
Net Income (Loss) Adjusted	(2,483,280)	4,172,189	2,112,132	(1,070,707)	(3,359,835)
Fund Balance - Start of Year	43,104,782	40,621,502	44,793,691	46,905,823	45,835,116
Prior Year Equity Adjustment	5,415,026	5,813,213	5,886,830	---	---
Adjustment to Accrual	398,187	73,617	(8,969,160)	---	---
*Net Position - End of Year	46,708,928	51,063,057	44,728,440	47,292,474	44,485,050
**Net Fund Balance - End of Year	40,621,502	44,793,691	46,905,823	45,835,116	42,475,281

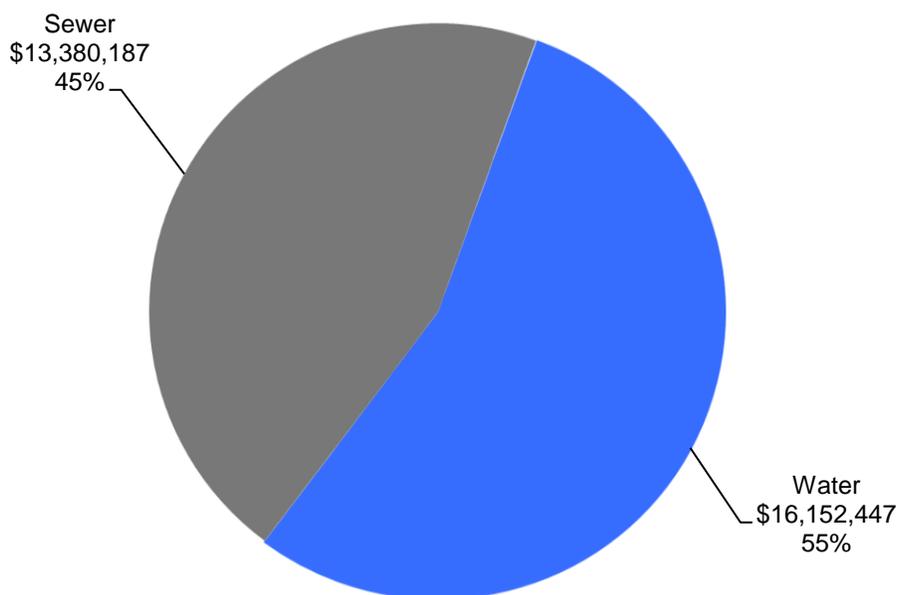
* "Net Position - End of Year" includes non-expendable accounting adjustments

** "Net Fund Balance - End of Year" represents true, available cash reserves

FY 2018 UTILITY CAPITAL IMPROVEMENTS FUNDING SOURCES = \$29,532,634



FY 2018 UTILITY CAPITAL IMPROVEMENTS EXPENDITURES = \$29,532,634



UTILITY CAPITAL IMPROVEMENTS BUDGET BY FUNDING SOURCE

Project Name	FY 2018 Adopted	Unrestricted Investment Income	Unrestricted Utility Fund Transfer	Restricted Water	Restricted Sewer	Revenue Bonds	Restricted Town of Apex Reimbursement
Water							
CAWTF - Filter Pipe Gallery Piping Removal	150,000	115,500	-	-	-	-	34,500
CAWTF - Laboratory Information Management System	175,000	134,750	-	-	-	-	40,250
CAWTF - Process Conversion to Ozone/Biofiltration	500,000	-	385,000	-	-	-	115,000
CAWTF - Residuals Transfer to Pump Replacements	150,000	115,500	-	-	-	-	34,500
CAWTF - Surge Tanks	720,000	554,400	-	-	-	-	165,600
CAWTF - Water System Radio Software and Antennas	400,000	308,000	-	-	-	-	92,000
Elevated Water Storage Tank Repainting - Carpenter Tank	600,000	-	600,000	-	-	-	-
Extend Water Mains	302,447	-	-	302,447	-	-	-
Harrison Elevated Water Tank Renovation	300,000	-	300,000	-	-	-	-
Heavy Equipment Replacement - Water	200,000	-	200,000	-	-	-	-
Infrastructure GIS Asset Data - Water	200,000	200,000	-	-	-	-	-
Jenks-Carpenter/Holt Road Water Line Reinforcement	1,200,000	-	250,000	950,000	-	-	-
Jordan Lake Partnership	40,000	11,660	28,340	-	-	-	-
Kilmayne Water Storage Tank	750,000	-	750,000	-	-	-	-
Maynard Road Water Line Reinforcement - Southeast	1,590,000	-	1,590,000	-	-	-	-
Maynard Road Water Line Reinforcement - Southwest - Phase II	520,000	-	-	520,000	-	-	-
Morrisville Parkway Water Line Connections	350,000	-	-	350,000	-	-	-
NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation	350,000	-	350,000	-	-	-	-
NCDOT P-5201 Morrisville Parkway Railroad Grade Separation	100,000	-	100,000	-	-	-	-
Plumtree Tank Modifications and Tank Repainting	225,000	-	225,000	-	-	-	-
Tryon Road Water Line Upsizing	220,000	-	-	220,000	-	-	-
Upgrade Water Lines	5,000,000	-	5,000,000	-	-	-	-
Water Line Oversizings	160,000	-	-	160,000	-	-	-
Water Main Condition Assessment	50,000	50,000	-	-	-	-	-
Water Storage Tank Repainting - Old Apex	150,000	-	150,000	-	-	-	-
Water System - Air Release Valve Replacements	150,000	-	150,000	-	-	-	-
Water System - Critical Water Line Locating and Testing	175,000	-	175,000	-	-	-	-
Water System - Valve Replacements	125,000	-	125,000	-	-	-	-
Water System Master Plan	350,000	-	350,000	-	-	-	-
White Oak Church Road Water Line	950,000	-	855,000	95,000	-	-	-
TOTAL FY 2018 WATER ADOPTED CIB	\$16,152,447	\$1,489,810	\$11,583,340	\$2,597,447	-	-	\$481,850

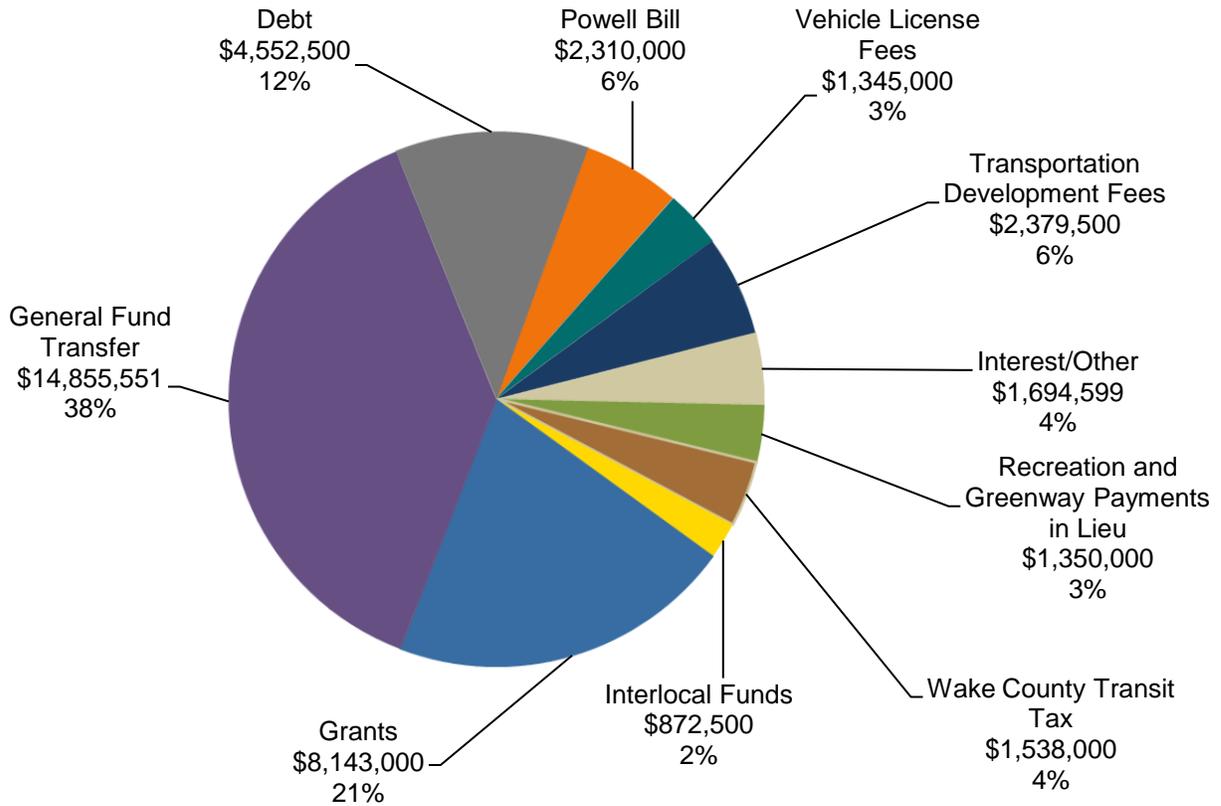
UTILITY CAPITAL IMPROVEMENTS BUDGET BY FUNDING SOURCE

Project Name	FY 2018 Adopted	Unrestricted Investment Income	Unrestricted Utility Fund Transfer	Restricted Water	Restricted Sewer	Revenue Bonds	Restricted Town of Apex Reimbursement
Sewer							
Cleaning and Video Survey of Sewer Interceptors	448,200	-	448,200	-	-	-	-
Heavy Equipment Replacement - Sewer	600,000	-	600,000	-	-	-	-
I-40 Pump Station Improvements	200,000	-	200,000	-	-	-	-
KCPS and MBRPS Force Main Parallel Along Green Level Church Road	2,000,000	-	-	-	2,000,000	-	-
Miscellaneous Pump Station Grinder Exchange Rebuild/Replace	150,000	150,000	-	-	-	-	-
NCWRF - Clarifier Equipment Repair and Replacement	150,000	150,000	-	-	-	-	-
NCWRF - Fork Lift - New	110,000	-	110,000	-	-	-	-
NCWRF - Improvements for Continuous Three Train Operation	50,000	50,000	-	-	-	-	-
NCWRF - Mixer Replacements	200,000	-	200,000	-	-	-	-
NCWRF - Partial and Diffused Air System	420,000	420,000	-	-	-	-	-
Reclaimed Water Line Oversizings	167,475	167,475	-	-	-	-	-
Sanitary Sewer Oversizings	195,000	195,000	-	-	-	-	-
SCWRF - Aeration Basin and Air Handler Repair	100,000	100,000	-	-	-	-	-
SCWRF - Aeration Basin Blower Replacements	325,000	-	325,000	-	-	-	-
SCWRF - Aeration Basin Recycle Pump Replacements	80,000	-	80,000	-	-	-	-
SCWRF - Clarifier Equipment Repair and Replacement	200,000	-	200,000	-	-	-	-
SCWRF - Peak Flow Management Study	150,000	150,000	-	-	-	-	-
SCWRF - Gravity Belt Thickener Rebuild	150,000	-	150,000	-	-	-	-
SCWRF - HVAC Replacement	56,400	-	56,400	-	-	-	-
SCWRF - Variable Frequency Drive Replacement	200,000	200,000	-	-	-	-	-
Sewer Flow Management Modeling Scenarios	150,000	150,000	-	-	-	-	-
Sewer System Repair/Rehabilitation	5,428,112	-	-	-	5,428,112	-	-
Upper Crabtree Creek Pump Station and Force Main	1,100,000	-	220,000	-	880,000	-	-
Wastewater Collection System Master Plan Update	250,000	-	250,000	-	-	-	-
Winding Pine Regional Pump Station, Gravity Sewer and Force Main	500,000	-	365,000	-	135,000	-	-
TOTAL FY 2018 SEWER ADOPTED CIB	\$13,380,187	\$1,732,475	\$3,204,600	-	\$8,443,112	-	-
GRAND TOTAL - ADOPTED FY 2018 CIB	\$29,532,634	\$3,222,285	\$14,787,940	\$2,597,447	\$8,443,112	\$0	\$481,850

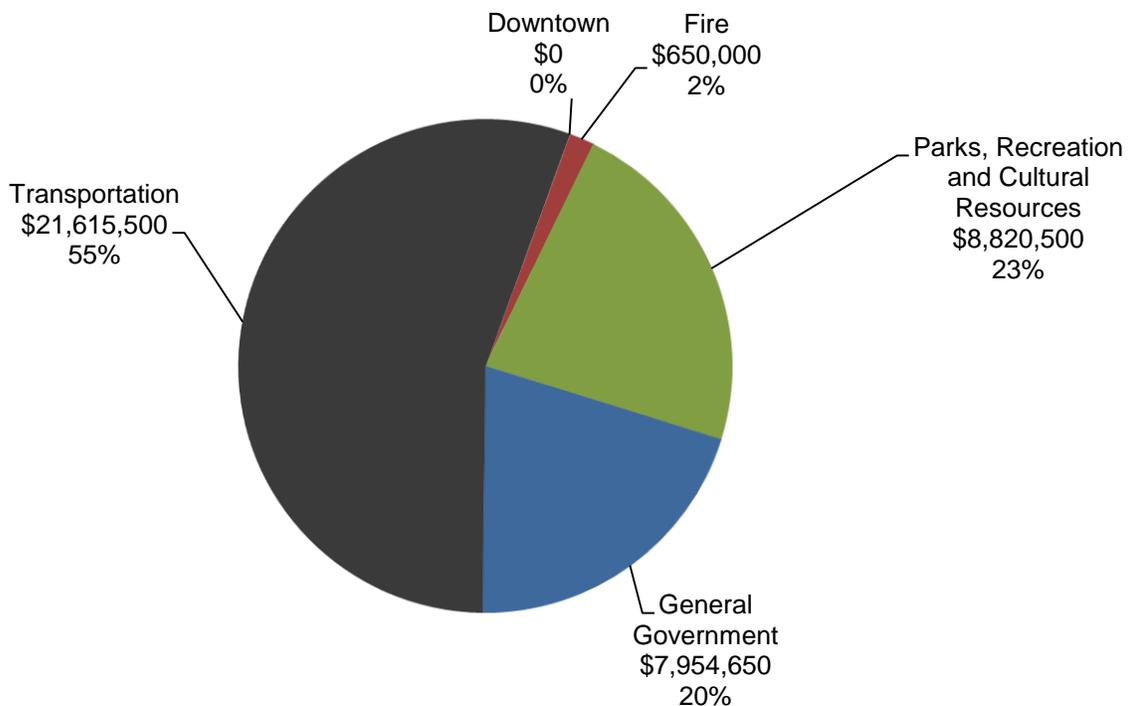
GENERAL CAPITAL RESERVE SUMMARY

	Actual 2014	Actual 2015	Actual 2016	Estimated 2017	Budget 2018
REVENUES					
Investment Earnings	653,929	739,346	1,399,613	1,617,832	1,731,859
Unrealized (Loss) Gain on Investment Earnings	(236,197)	(88,687)	(418,624)	(418,624)	(418,624)
Net Investment Earnings	417,732	650,659	980,989	1,199,208	1,313,235
Transportation Development Fees	1,485,900	911,166	1,620,360	1,625,480	1,300,384
Vehicle License Fees	1,445,632	1,372,801	1,363,462	1,175,763	1,199,279
Powell Bill	3,677,908	3,726,916	3,787,821	3,822,179	3,772,111
Special Recreation Payment In Lieu	2,577,810	3,059,159	5,004,278	3,653,764	---
Parks Contributions	---	---	---	---	---
Interlocal Revenue	1,000,000	1,000,000	---	---	---
Triangle Futbol Club Payment	---	---	300,000	181,467	181,467
Payment in Lieu of Streets	625,415	1,384,823	884,693	745,057	---
Payment in Lieu - Street Lighting	22,350	1,586	---	12,300	---
Utility Franchise Fee	602,028	619,850	601,242	622,497	616,272
Miscellaneous	81,512	---	---	---	---
TOTAL REVENUES	11,936,287	12,726,960	14,542,845	13,037,715	8,382,748
OTHER FINANCING SOURCES (USES)					
Transfer to Transportation Capital Improv. Fund	(5,730,856)	(8,095,838)	(10,815,000)	(7,665,000)	(6,059,500)
Transfer to Fire Capital Improv. Fund	69,760	589,461	(650,000)	(650,000)	(97,500)
Transfer to Parks & Rec. Capital Improv. Fund	(1,952,989)	(5,618,795)	(1,539,000)	(6,224,000)	(2,093,799)
Transfer to General Gov't Capital Improv. Fund	(1,144,360)	1,624,922	(2,277,400)	(880,000)	(828,300)
Transfer to General Fund for Debt Service	(4,500,000)	---	---	(150,000)	---
Transfer to Downtown Capital Improv. Fund	---	2	690	---	---
Funds Returned to Fund Balance	---	---	4,916,381	1,057,000	---
TOTAL OTHER FINANCING SOURCES	(13,258,445)	(11,500,248)	(10,364,329)	(14,512,000)	(9,079,099)
Revenues and Other Sources Over (Under)					
Expenditures and Other Uses	(1,322,158)	1,226,712	4,178,516	(1,474,285)	(696,351)
Fund Balance - Start of Year	27,479,135	26,156,977	27,383,689	31,562,205	30,087,920
Equity Transfers In (Out)	---	---	---	---	---
Fund Balance - End of Year	26,156,977	27,383,689	31,562,205	30,087,920	29,391,569
Undesignated Fund Balance - End of Year	25,920,780	27,295,002	31,143,581	29,669,296	28,972,945

FY 2018 GENERAL CAPITAL IMPROVEMENTS FUNDING SOURCES = \$39,040,650



FY 2018 GENERAL CAPITAL IMPROVEMENTS EXPENDITURES = \$39,040,650



**GENERAL CAPITAL IMPROVEMENTS BUDGET
BY FUNDING SOURCE**

Project Name	FY 2018 Adopted	Debt Funding	Grant Funding	Unrestricted Investment Income	Unrestricted Utility Franchise Fees	Unrestricted General Fund Transfer	Restricted Transportation	Restricted Wake County Transit Tax	Restricted Park & Greenway	Restricted Interlocal
Transportation										
Aviation Parkway Sidewalk Reimbursement - NE Quadrant at I-40 Interchange	20,000	-	-	-	-	-	20,000	-	-	-
Bicycle Facilities Implementation	25,000	-	-	-	25,000	-	-	-	-	-
Bridge and Culvert Repairs	85,000	-	-	-	-	-	85,000	-	-	-
Carpenter Fire Station Road/CSX Rail Grade Separation	3,000,000	3,000,000	-	-	-	-	-	-	-	-
Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)	1,100,000	-	-	-	-	-	1,100,000	-	-	-
GoCary ADA Bus Stop Improvements	895,000	-	400,000	-	-	-	-	495,000	-	-
GoCary Bus Stop Sign Replacement	43,000	-	-	-	-	-	-	43,000	-	-
GoCary Capital Amenities	75,000	-	-	-	-	-	75,000	-	-	-
GoCary Regional Operations and Maintenance Facility	1,000,000	-	-	-	-	-	-	1,000,000	-	-
Reedy Creek Road Widening - NE Maynard Road to N Harrison Ave	6,397,500	-	5,118,000	-	-	-	1,279,500	-	-	-
Sidewalk and Pedestrian Improvements	1,000,000	-	-	-	-	-	1,000,000	-	-	-
Spot Improvements - Based on Levels of Service, Safety and Citizen Concerns	225,000	-	-	-	-	-	225,000	-	-	-
Street Improvement Project	6,500,000	1,000,000	-	-	-	4,500,000	1,000,000	-	-	-
Street Storm Drainage System Rehabilitation	250,000	-	-	-	-	-	250,000	-	-	-
Traffic Signalization Projects	400,000	-	-	-	-	-	400,000	-	-	-
Transportation Feasibility Studies	600,000	-	-	-	-	-	600,000	-	-	-
TOTAL FY 2018 TRANSPORTATION ADOPTED CIB	\$21,615,500	\$4,000,000	\$5,518,000	-	\$25,000	\$4,500,000	\$6,034,500	\$1,538,000	-	-
Fire										
Fire Pumper Replacement - #1706	650,000	552,500	-	97,500	-	-	-	-	-	-
TOTAL FY 2018 FIRE ADOPTED CIB	\$650,000	\$552,500	-	\$97,500	-	-	-	-	-	-
Parks, Recreation and Cultural Resources										
Annie Jones Park Tennis Court Renovations	50,000	-	-	-	50,000	-	-	-	-	-
Athletic Field Bleacher Replacements	48,000	-	-	-	48,000	-	-	-	-	-
Black Creek Greenway Renovation - Phases I, II and V	4,275,000	-	2,625,000	-	-	1,650,000	-	-	-	-
Cary Tennis Park Renovations	450,000	-	-	-	150,000	300,000	-	-	-	-
Cary Tennis Park Improvements - Interlocal (Covered Courts and Clubhouse)	872,500	-	-	-	-	-	-	-	-	872,500
DT - Downtown Park Future Phases Master Plan	150,000	-	-	150,000	-	-	-	-	-	-
Dunham Park Improvements	150,000	-	-	-	-	150,000	-	-	-	-
Greenway Pedestrian Structure Repair	100,000	-	-	-	-	100,000	-	-	-	-
Greenway Resurfacing Projects	250,000	-	-	250,000	-	-	-	-	-	-
P-006 Neighborhood Park	500,000	-	-	-	-	-	-	-	500,000	-
P-010 Neighborhood Park	850,000	-	-	-	-	-	-	-	850,000	-
Park and Greenway Renovations	270,000	-	-	-	-	270,000	-	-	-	-
Park, Greenway and Facility Sign Plan	75,000	-	-	-	-	75,000	-	-	-	-
Playground Surface Repairs/Replacement	83,000	-	-	-	20,799	62,201	-	-	-	-
Public Art - Black Creek Greenway	35,000	-	-	-	35,000	-	-	-	-	-
Public Art - P-006 Neighborhood Park	10,000	-	-	10,000	-	-	-	-	-	-
Public Art - P-010 Neighborhood Park	10,000	-	-	-	10,000	-	-	-	-	-
Public Art - Parks and Greenways Amenities	20,000	-	-	-	20,000	-	-	-	-	-
Tennis Court Renovations	72,000	-	-	-	-	72,000	-	-	-	-
Thomas Brooks Park Field Drainage	550,000	-	-	-	-	550,000	-	-	-	-
TOTAL FY 2018 PRCR ADOPTED CIB	\$8,820,500	-	\$2,625,000	\$410,000	\$333,799	\$3,229,201	-	-	\$1,350,000	\$872,500

**GENERAL CAPITAL IMPROVEMENTS BUDGET
BY FUNDING SOURCE**

Project Name	FY 2018 Adopted	Debt Funding	Grant Funding	Unrestricted Investment Income	Unrestricted Utility Franchise Fees	Unrestricted General Fund Transfer	Restricted Transportation	Restricted Wake County Transit Tax	Restricted Park & Greenway	Restricted Interlocal
General Government										
ADA Improvements at Town Facilities	335,350	-	-	-	-	335,350	-	-	-	-
AH - Downtown Rehab and Façade Improvement Program	100,000	-	-	-	-	100,000	-	-	-	-
AH - Owner Occupied Housing Rehab and Façade Improvement Program	300,000	-	-	-	-	300,000	-	-	-	-
Application Software Replacement	225,000	-	-	-	-	225,000	-	-	-	-
Conference Room Technology Upgrades	27,300	-	-	27,300	-	-	-	-	-	-
Electric Vehicle Charging Station for Library Parking Deck	110,000	-	-	110,000	-	-	-	-	-	-
Facility Painting Interior and Exterior	70,000	-	-	70,000	-	-	-	-	-	-
Garmon Operations Center - Facility Improvements - Phase II	1,600,000	-	-	-	-	1,600,000	-	-	-	-
Heavy Equipment Replacement	600,000	-	-	-	-	600,000	-	-	-	-
Historic Preservation Implementation Activities	21,000	-	-	21,000	-	-	-	-	-	-
Historic Town Facility Preservation	1,000,000	-	-	-	-	1,000,000	-	-	-	-
HVAC Replacements and Major Maintenance	120,000	-	-	120,000	-	-	-	-	-	-
Parking Lot Resurfacing	101,000	-	-	-	-	101,000	-	-	-	-
Relamping Town Facilities	100,000	-	-	-	-	100,000	-	-	-	-
Roof Assessment and Rehabilitation Program	770,000	-	-	-	-	770,000	-	-	-	-
Sand/Salt Storage Structure	150,000	-	-	150,000	-	-	-	-	-	-
Sanitation and Recycling Truck Replacement	945,000	-	-	-	-	945,000	-	-	-	-
Storm Drainage Project - Private Assistance	250,000	-	-	-	-	250,000	-	-	-	-
Storm Drainage Project - Town Properties	300,000	-	-	-	-	300,000	-	-	-	-
Stormwater Condition Assessment and Rehabilitation Program	500,000	-	-	-	-	500,000	-	-	-	-
Town Hall Pedestrian Bridge	300,000	-	-	300,000	-	-	-	-	-	-
Upgrade Pedestrian Crossings - Relocation of Push Buttons	30,000	-	-	30,000	-	-	-	-	-	-
TOTAL FY 2018 GENERAL GOVERNMENT ADOPTED CIB	\$7,954,650	-	-	\$828,300	-	\$7,126,350	-	-	-	-
Downtown										
There are no FY 2018 Downtown capital appropriations.	-	-	-	-	-	-	-	-	-	-
TOTAL FY 2018 DOWNTOWN ADOPTED CIB	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL - FY 2018 ADOPTED CIB	\$39,040,650	\$4,552,500	\$8,143,000	\$1,335,800	\$358,799	\$14,855,551	\$6,034,500	\$1,538,000	\$1,350,000	\$872,500

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UTILITY CAPITAL IMPROVEMENTS BUDGET REVENUE AND FUNDING SOURCES

Revenue and funding sources and related historical trends for the Fiscal Year 2018 capital improvements budget are discussed below. Revenue and funding sources are grouped by the project category to which they are assigned. Graphs are included for the major revenue and funding sources. Each graph presents nine years of actual data, FY 2017 estimated revenues and FY 2018 budgeted revenues.

UTILITY CAPITAL

Utility capital revenue and funding sources support utility related capital projects including the following:

Water

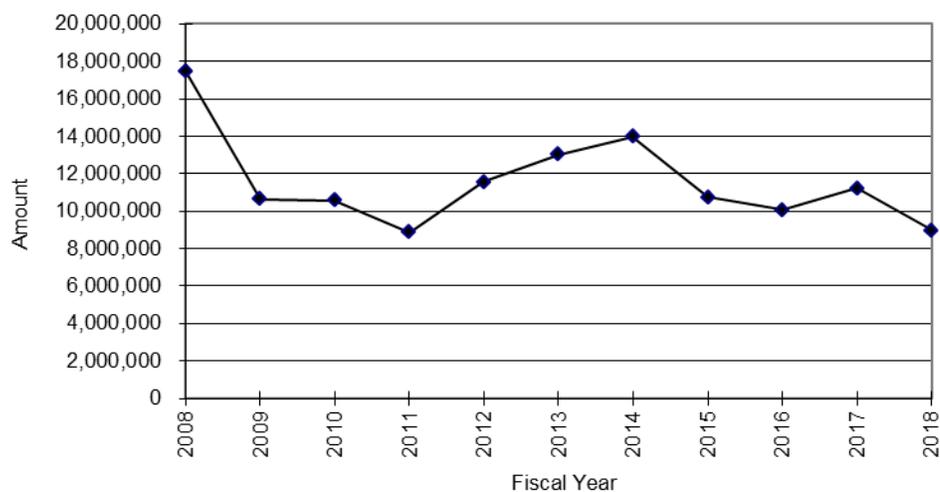
- Water Lines
- Water Storage Tanks
- Water Treatment Equipment
- Water Plant Expansions

Sewer

- Sewer Lines
- Pump Stations
- Water Reclamation Equipment
- Water Reclamation Facility Expansions

FUNDING SOURCES

- **Water and Sewer Development Fees: \$8,981,419**



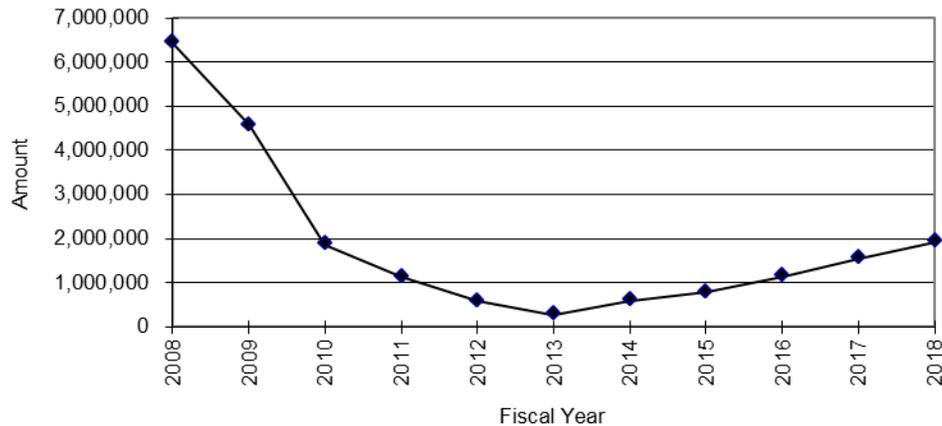
Water and sewer development fees were created in FY 1999 to replace water and sewer acreage and connection fees. Water and sewer development fees are paid at the time of permit issuance in order to help cover costs associated with water and sewer infrastructure and/or capacity needs of new development. These fees vary based on residential, commercial and multi-family development type, size, and system capacity utilized.

FY 2009 water and sewer development fee receipts of \$10,631,698 were 39% lower than FY 2008 receipts. The national economic downturn experienced in FY 2009 is the primary force behind decreased development during this fiscal year. A total of 1,067 residential and commercial building permits were issued in FY 2009 compared to 2,155 in FY 2008. FY 2011 was the trough of the downturn, and FY 2014 saw the peak in the “post-downturn” recovery with revenues of \$13.9 million.

Water and sewer development fee revenue is estimated at \$11,226,774 for FY 2017. This is 12% greater than FY 2016 actual receipts. FY 2017 receipts benefitted substantially from the permitting of three new apartment developments and one five story office building early in the fiscal year. However, the payment of several water and sewer developer reimbursement agreements reduced net revenue by \$368,688 in FY 2017.

As multiple, substantial one-time payments are not anticipated in FY 2018, this year's water and sewer development fee revenues are projected to decrease 20% below FY 2017 actuals to \$8,981,419. As noted previously, the utilization of fee credits and reimbursements by developers can contribute to lower net revenue and are factored into the FY 2018 revenue estimate. Building permit levels and development fee earnings will be monitored closely in FY 2018 and estimates will be adjusted upward should development activity substantially increase.

- **Interest Earned: \$1,921,590**



Interest Earned revenue represents the amount of money the Town earns on its invested funds held within the utility capital reserve fund. These earnings are categorized as unrestricted but must be used to fund utility capital projects according to North Carolina General Statute 159-30 which states that interest income must be credited to the fund that supplied the principal. The Town of Cary allocates these funds between water and sewer projects based on historical project funding levels with water projects receiving 75% of this income and sewer projects receiving 25%.

At \$276,683, FY 2013 saw the lowest level of interest earnings for the FYs 2008 – 2018 period. A general decline in interest rates due to the Federal Reserve's response to economic conditions is primarily responsible for that year's reduced rate of return on investments. FY 2017 interest revenue is estimated at \$1,554,109 or 37% higher than FY 2016 earnings. FY 2018 interest earnings are projected to increase 24% to \$1,921,590 based on rising interest rates.

- **Utility Fund Transfers: \$14,787,940**

Fund balance transfers from the utility fund typically support projects for which funding has not been dedicated from other sources. The Town of Cary's utility rates are calculated using a multi-year rate smoothing approach initiated in FY 2009, which is designed to avoid large rate increases in years when significant amounts of debt must be issued, and to generate funds that can be transferred from the utility fund to reduce the amount of debt that must be issued. Rate smoothing spreads the effect of large projects on the rates over several years, avoiding large rate increases in any one year. The FY 2018 capital improvements budget includes a \$14,787,940 utility fund transfer in support of water and sewer utility capital needs.

- **Town of Apex Reimbursement for Cary/Apex Water Treatment Plant: \$481,850**

The Cary/Apex Water Treatment Plant is jointly owned by the towns of Cary and Apex. Under the terms of the arrangement, the Town of Cary staffs and manages the facility and bears 77% of all operating and capital costs while the Town of Apex is responsible for the remaining 23%. The Town of Cary budgets for 100% of the operating and capital costs associated with the plant and requests reimbursement from the Town of Apex annually for its 23% share. The FY 2018 total capital appropriation for Cary/Apex Water Treatment Plant projects is \$2,095,000. The 23% Town of Apex reimbursement amount related to these capital appropriations is \$481,850.

GENERAL CAPITAL IMPROVEMENTS BUDGET REVENUE AND FUNDING SOURCES

GENERAL CAPITAL

General capital revenue and funding sources support transportation, fire, parks, recreation and cultural resources, general government and downtown capital projects such as the following:

Transportation

- New roads
- Road widening
- Repaving
- Sidewalks

Parks, Recreation and Cultural Resources

- Community centers
- Greenways
- Parks

Downtown

- Downtown infrastructure improvements

Fire

- Fire stations
- Pumper trucks
- Aerial ladder trucks

General Government

- Vehicle replacements
- Town government building construction/expansion
- Stormwater condition assessments/rehab

FUNDING SOURCES

- **General Fund Transfer: \$14,855,551**

Fund balance transfers from the general fund typically support general capital projects for which funding has not been dedicated from other sources. General fund transfers in FY 2018 total \$14,855,551 and support a variety of transportation, PRCR and general government projects.

- **General Obligation Bond Debt: \$4,000,000**

The FY 2018 capital improvements budget utilizes \$4,000,000 of appropriated but unissued 2012 transportation-focused General Obligation Bond funds for completion of two street projects as noted below. Repayment of this debt has been factored into the Town's general fund debt repayment schedule.

\$3,000,000	Carpenter Fire Station Road/CSX Rail Grade Separation
\$1,000,000	Street Improvement Project

- **Installment Purchase Debt: \$552,500**

The FY 2018 capital improvements budget appropriates \$552,500 of installment purchase debt in support of a portion of the following project. Repayment of this debt has been factored into the Town's general fund debt repayment schedule.

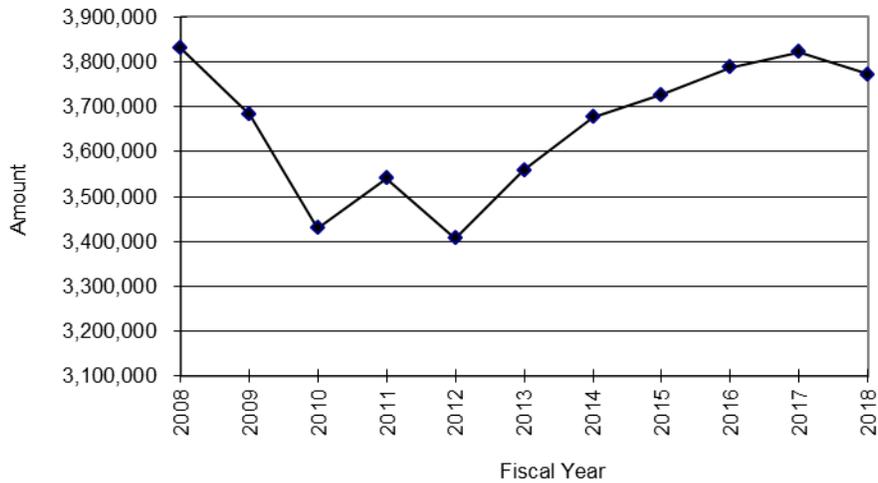
\$ 552,500	Fire Pumper Replacement - #1706
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- **Grant Funding: \$8,143,000**

The Town of Cary has been awarded Congestion Mitigation and Air Quality (CMAQ) federal grant funding for the three projects noted below. This grant program funds transportation projects and programs that help achieve and maintain national standards for air quality pollutants.

Project Name	Grantor Contributed
Black Creek Greenway Renovation - Phases I, II and V	\$2,625,000
GoCary ADA Bus Stop Improvements	\$400,000
Reedy Creek Rd Widening - NE Maynard Rd to N Harrison Ave	\$5,118,000
Total Grant Funds	\$8,143,000

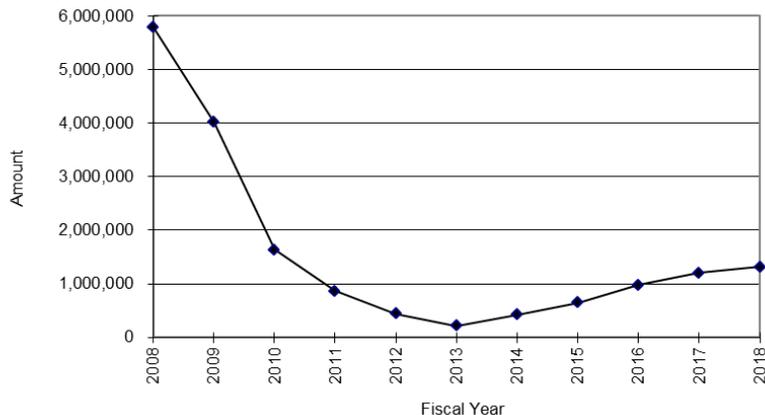
- **Powell Bill: \$3,772,111**



Powell Bill funds are a direct allocation provided by the State of North Carolina for the maintenance of non-state roadways. Powell Bill funds are distributed to municipalities according to a two-part formula. The number of non-state street miles within a municipality comprises one-quarter of the formula (currently projected to be 470.8 miles for the Town of Cary in FY 2016), while three-quarters of the formula is calculated on a per capita basis according to North Carolina General Statutes 136-41.1 through 136.41.4. The North Carolina League of Municipalities provides estimates for the statewide population and mileage rates. These rates are applied in conjunction with the Town’s projected non-state street miles and population to derive the estimate of future receipts.

Expenditure of Powell Bill revenues is restricted to certain types of transportation projects. These revenues are distributed twice per year by the state on or before October 1 and on or before January 1. As such, FY 2017 revenues of \$3,822,179 represent actual receipts. The Town’s FY 2018 Powell Bill distribution is projected to be 1.3% less than FY 2017 actual receipts.

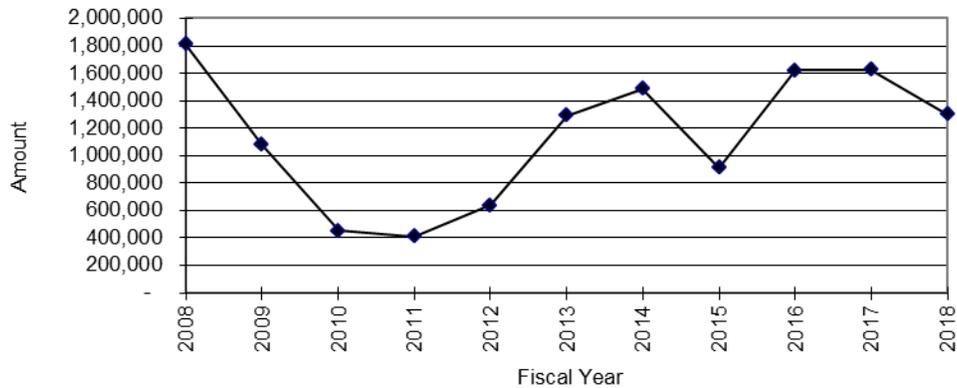
- **Interest Earned: \$1,313,235**



Interest earned represents the amount of money the Town earns on its invested funds held within the general capital reserve fund. These earnings are categorized as unrestricted but must be used to fund general capital projects according to North Carolina General Statute 159-30 which states that interest income must be credited to the fund that supplied the principal.

FY 2017 interest revenue is estimated at \$1,199,208 or 22% higher than FY 2016 earnings. FY 2018 interest earnings are projected to increase 10% above estimated FY 2017 based on rising interest rates.

- **Transportation Development Fees: \$1,300,384**

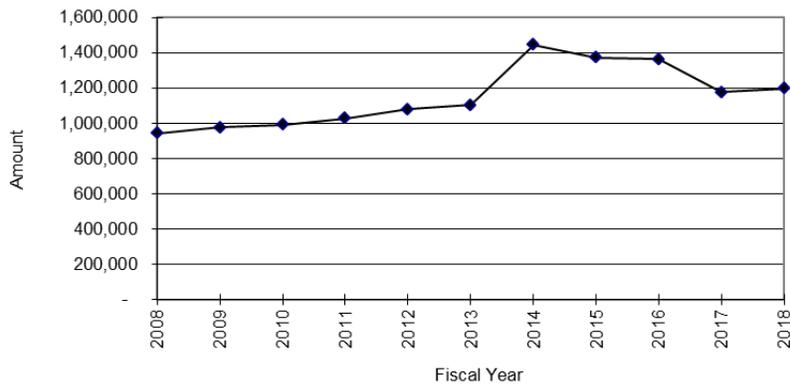


Transportation development fees (TDFs) are charged by the Town at the time of permit issuance for construction and improvement of thoroughfares to help support new development within the Town. Cary received authority to charge transportation development fees in 1987 with House Bill 684. The Town of Cary first utilized its transportation development fee authority in 1989. An independent analysis of the fee’s level is conducted periodically with the latest review having been presented to Council and approved by them in April 2015.

FY 2009 transportation development fee receipts of \$1,077,931 were 41% lower than FY 2008 receipts. The national economic downturn experienced in FY 2009 is the primary force behind decreased development during this fiscal year. A total of 1,067 residential and commercial building permits were issued in FY 2009 compared to 2,155 in FY 2008. FY 2014 saw the first peak in the “post-downturn” recovery with revenues of \$1.5 million.

Transportation development fee revenue is estimated at \$1,625,480 for FY 2017 representing a 0.3% increase over FY 2016 actuals. FY 2017 receipts benefitted substantially from the permitting of three new apartment developments and one five story office building early in the fiscal year. As multiple substantial one-time payments such as these are not anticipated in FY 2018, this year’s TDF revenues are projected to decrease 20% below FY 2017 actuals to \$1,300,384. The utilization of fee credits and reimbursements by developers can contribute to lower net revenue and are factored into the FY 2018 revenue estimate. Building permit levels and development fee earnings will be monitored closely in FY 2018 and estimates will be adjusted upward should development activity substantially increase.

• **Vehicle License Fees: \$1,199,279**



Vehicle license fee revenue is generated by the sale and/or renewal of vehicle licenses for vehicles owned by Cary residents. North Carolina General Statutes 20-97 and 20-97(a) give Cary the authority to impose a motor vehicle tax of not more than \$30 per year per resident vehicle for the following purposes: general use (not more than \$5 of the fee), public transportation (not more than \$5 of the fee) and maintaining, repairing, constructing, reconstructing, widening or improving streets in the town that are not part of the state highway system (remainder of the fee).

The FY 2018 Town of Cary vehicle license fee remains unchanged at \$15 per resident vehicle per year. The vehicle tax constitutes \$10 of the fee, while the vehicle tax for public transportation makes up the remaining \$5.00. As \$5.00 of the Town’s \$15.00 fee is restricted to the Town’s mainstream transit service, revenue generated by that portion of the fee is budgeted within the transit fund.

The North Carolina Department of Motor Vehicles assumed responsibility for vehicle tax and related fee billings in FY 2014. The new “Tax and Tag” system changed the timing of tax, registration and vehicle license payments for vehicle owners. As a result, vehicle owners with registration due dates late in the calendar year ultimately made two payments within a single fiscal year. This occurred only in the first year of the new program. The FY 2015 decrease in vehicle license fee revenue was due to the one-time revenue received in FY 2014.

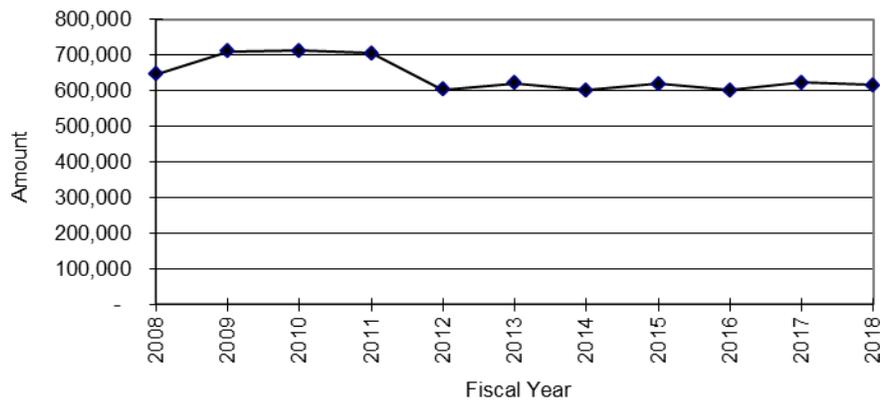
FY 2017 receipts, based on the \$10 portion of the fee, are projected to be \$1,175,763. The FY 2018 budget amount of \$1,199,279 is 2% higher than projected FY 2017 revenue.

• **Wake County Transit Tax: \$1,538,000**

Wake County voters approved a one-half percent (1/2%) sales and use tax on November 8, 2016 whose proceeds serve as a dedicated funding source for the implementation of the Wake County Transit Plan (WCTP). The WCTP is the adopted strategic transit vision for the region and incorporates elements of Cary’s transit capital infrastructure priorities. The Town of Cary’s FY 2018 CIB includes the WCTP approved GoCary transit infrastructure for this year and recognizes the anticipated receipt of \$1,538,000 in support of the following projects:

GoCary ADA Bus Stop Improvements	\$ 495,000
GoCary Bus Stop Sign Replacement	\$ 43,000
GoCary Regional Operations and Maintenance Facility	<u>\$1,000,000</u>
Total GoCary Funding	\$1,538,000

• **Utility Franchise Fees: \$616,272**



Per North Carolina State Session Law 2006-151, as of January 1, 2007, the State of North Carolina is the franchising authority for video services within the state. This legislation preempts local government franchising authority.

Under this legislation, percentages of sales tax collections on telecommunications, sales tax collections on cable service, and sales tax collections on home satellite television service are distributed to municipalities on a proportional basis. Cities and counties share portions of these three state taxes as replacement for expired local cable franchise fee agreements. The state distributes payments from the sales tax on video programming to counties and municipalities on a quarterly basis. The Town opts to allocate 60% of its video programming distribution to the general fund and 40% to the general capital reserve fund. This action is not mandated by the state. The portion of the distribution accounted for within the general capital reserve fund serves as unrestricted funding that may be appropriated to any general capital need.

FY 2017 utility franchise fee receipts are projected to be \$622,497 or 4% higher than FY 2016 receipts. FY 2018 budgeted revenues of \$616,272 represent a 1% decrease from the FY 2017 estimated amount to reflect the national trend in subscriber revenue for these services.

• **Interlocal Revenue: \$872,500**

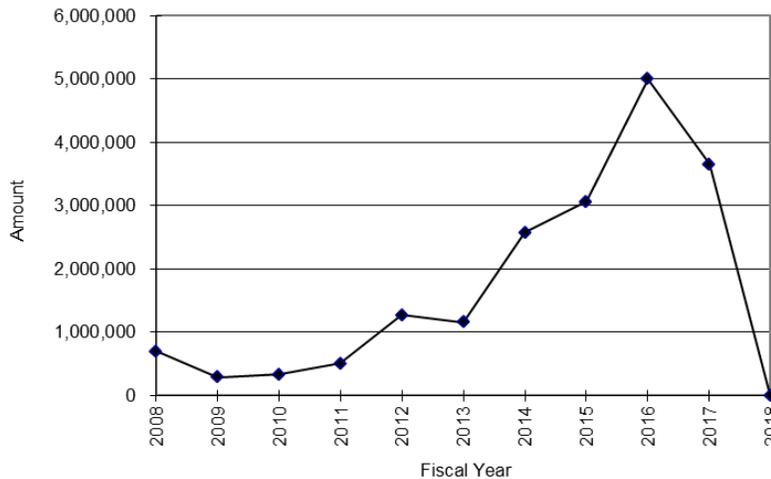
Hotel/motel occupancy tax and prepared food and beverage taxes are collected by Wake County and distributed according to a tiered schedule to Wake County, the City of Raleigh, the Greater Raleigh Convention and Visitors Bureau and the Town of Cary. While uses of the funds are specifically defined for each entity receiving them, all uses center around bringing visitors to Wake County. The Town of Cary uses the funds to support cultural arts, recreational and athletic events, programs and promotions and construction, expansion and improvements for venues such as Koka Booth Amphitheatre at Regency, the USA Baseball National Training Facility at Thomas Brooks Park, WakeMed Soccer Park and the Cary Tennis Park.

Cary was awarded a \$10 million hotel/motel occupancy tax and prepared food and beverage tax distribution (referred to as interlocal revenue) with disbursements beginning in FY 2013 for four specific special venue expansion/improvements projects:

- WakeMed Soccer Park Expansion/Improvements – Phase I
- Cary Tennis Park Expansion/Improvements
- USA Baseball National Training Facility Expansion/Improvements
- WakeMed Soccer Park Expansion/Improvements – Phase II

The \$10 million interlocal revenue award supports 50% of the total cost to complete these projects. The Town will fund the remaining \$10 million or 50%. The first disbursement of \$400,000 was received in FY 2013. The final payment will be distributed in FY 2019.

• **Park Payment-in-Lieu Fees: \$0**



The Town of Cary's Land Development Ordinance requires developers to donate at least 1/35th of an acre of land for each single-family dwelling unit planned or proposed on the planned development master plan, mixed use preliminary development plan or reflected on a subdivision plat. Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/20th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat for the dedicated parcel.

Effective July 1, 2012, the Town's Land Development Ordinance also requires developers of multi-family dwelling units not requiring subdivision plan approval to provide funds where the Town may acquire recreational land or areas to serve the development or more than multi-family development or residential subdivision. The multi-family recreation fund payment must be equal to 65% of the five-year rolling average subdivision recreation fund payment per dwelling unit. A combination of partial payment of funds and partial dedication of land may be required in instances where the Town Council determines that this combination is in the best interest of the citizens of the area to be served. Land to be dedicated in lieu of payment of funds must be equal to 1/55th of an acre for each dwelling unit for which dedication is to be made in lieu of fund payment.

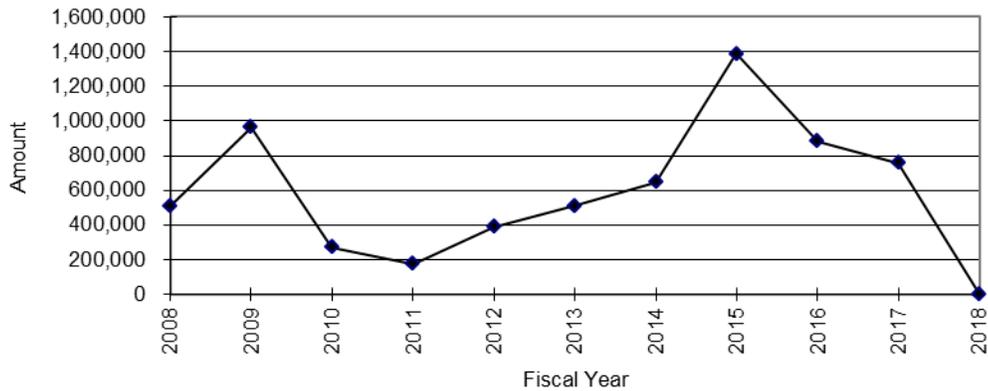
Should the land that a developer plan to dedicate lie within a FEMA 100 year floodplain, wetlands, regulated stream buffers or have slopes greater than 15% percent, land should be dedicated at a rate of at least 1/40th of an acre per dwelling unit. Such areas should be reflected on the subdivision plat for the dedicated parcel.

Per the Town's Land Development Ordinance, the payment of fees in lieu of the dedication of land may occur at the request of the subdivider or developer. In most instances, payments in lieu of land dedication must be paid prior to recording any lots in the subdivision (for single family development) or in accordance with an approved phasing plan, or prior to the issuance of the first building permit if there is no approved phasing plan (for multi-family development).

The Town does not annually budget for this revenue due to the unpredictability of receipts. Rather, receipts earned in a fiscal year are allowed to fall to general capital reserve fund balance where they are then appropriated in a future year in support of growth related and/or special venue park and greenway projects.

\$3,653,754 in Parks Payment-in-Lieu fees was received as of May 2017. This figure is 27% less than FY 2016 actual receipts of \$5,004,278.

- **Street, Sidewalk and Street Light Payment-in-Lieu Fees: \$0**



The Town of Cary’s Land Development Ordinance requires that developers of subdivisions construct street, sidewalk and street light improvements within their developments and on adjacent property frontage that conform to Town standards. A payment in lieu of street, sidewalk or street light construction may be made to the Town should the developer prefer not to construct the required improvement. In these instances, the developer must provide the Town with a sealed engineer’s estimate for the work to be constructed. The Town then reviews the estimate to ensure that it is in accordance with established standards. Should everything be in order, the payment in lieu request is approved by the Town and funds are accepted. Payments in lieu of improvements must be paid prior to initiation of site construction which includes final plat approval and grading permit issuance.

The Town does not annually budget for this revenue due to the unpredictability of receipts. Rather, receipts earned in a fiscal year are allowed to fall to fund balance where they are then appropriated in a future year.

\$757,357 in street, sidewalk and street light payment in lieu fees was received as of May 2017. This figure is 14% less than FY 2016 actual receipts of \$884,693.

CUMULATIVE IMPACTS OF FYS 2018 – 2028 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON THE OPERATING BUDGET

An important criterion to consider when developing a capital improvements budget/plan is the financial impact that a completed capital project will have on a municipality's operating budget. While some completed projects may have little to no staffing or operating/maintenance costs associated with them (i.e. the replacement of a culvert), others may bear considerable annual costs (i.e. the opening of a newly constructed fire station) that must be supported by the Town's operating budget.

The Town of Cary's capital budgeting process requires that costs of this nature be estimated for each project during project request development. Staffing costs (known as personnel costs) and operating and maintenance (O&M) costs are estimated in current fiscal year dollars and note the costs associated with staffing, operating, and maintaining the capital item during its first full year of operation. Schedules are then developed applying a 5% inflation rate per year to approximate future year operating budget impacts that the project will likely have on the operating funds.

The Town of Cary's operating impact forecasts are based on five key assumptions. These assumptions should be referenced when interpreting the tables and graphs outlining the cumulative impacts of the Town of Cary's current capital improvements plan on the Town's operating budget for the next ten years.

1. Operating impacts are defined as any staffing or maintenance needs associated with a completed capital project that must be met on an annual basis in order to run or maintain the item, facility or asset.
2. Operating impacts associated with capital projects coming on-line during FY 2018 are incorporated within the Town of Cary's Annual Operating Budget.
3. Operating impacts contained within these schedules are cumulative. For example, operating impacts beginning in FY 2018 are factored into the following years' impact figures.
4. Operating impacts are effective the first year that the project is complete and fully functioning.
5. Inflation for operating costs is calculated at 5% per year. The Town bases its inflation factor on construction, building and materials cost indices and is intentionally conservative (higher than current levels).

**CUMULATIVE IMPACTS OF FYS 2018 - 2028 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS
ON FUTURE OPERATING BUDGETS
(INCLUDES ONLY PROJECTS WITH IDENTIFIED OPERATING IMPACTS)**

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Note: Operating impacts associated with capital projects coming on-line during FY 2018 are incorporated within the Town of Cary's Annual Operating Budget. Operating impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

Intentionally Conservative Annual Inflation Percentage				5%	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr
Project Category	Project Type	Project Title	Total Projected Personnel Cost Related to Projects in CIP		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
FIRE	Stations with Pumpers	Fire Station 10 (O'Kelly Chapel Road)	7,988,750	-	-	-	-	-	-	1,487,750	1,542,750	1,597,750	1,652,750	1,707,750
FIRE	Stations with Pumpers	Fire Station 12 (West Lake/Middle Creek)	5,183,625	-	-	-	-	-	-	-	-	1,670,375	1,727,875	1,785,375
GENERAL	Special Facilities for Operations	Garmon Operations Center												
		Facility Improvements - Phase II	47,108	-	-	-	-	-	7,164	7,439	7,714	7,989	8,264	8,539
PARKS	Community Centers	Mills Park Community Center	4,357,500	-	-	-	-	-	-	811,500	841,500	871,500	901,500	931,500
PARKS	Parks	MacDonald Woods Park Improvements - Phase II	11,269	-	-	-	-	-	-	-	-	3,631	3,756	3,881
PARKS	Parks	P-002 Neighborhood Park	90,150	-	-	-	-	-	-	-	-	29,050	30,050	31,050
PARKS	Parks	P-006 Neighborhood Park	196,350	-	-	-	25,050	26,050	27,050	28,050	29,050	30,050	31,050	
PARKS	Parks	P-011 Neighborhood Park	23,288	-	-	-	-	-	-	-	-	-	-	23,288
PARKS	Special Facilities	Safety Town for Kids	295,500	-	-	-	-	-	-	-	70,125	72,625	75,125	77,625
PARKS	Special Facilities	TCAP - Digital Arts Center	763,750	-	-	-	-	-	-	-	-	-	375,625	388,125
Total Estimated Personnel Impacts			18,957,289	-	-	-	25,050	33,214	2,333,739	2,490,139	4,281,970	4,804,995	4,988,183	

Intentionally Conservative Annual Inflation Percentage				5%	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr	Plan Yr
Project Category	Project Type	Project Title	Total Projected O&M Cost Related to Projects in CIP		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
FIRE	Stations with Pumpers	Fire Station 10 (O'Kelly Chapel Road)	355,863	-	-	-	-	-	-	66,273	68,723	71,173	73,623	76,073
FIRE	Stations with Pumpers	Fire Station 10 (O'Kelly Chapel Road) Pumper	130,591	-	-	-	-	-	19,859	20,622	21,384	22,146	22,909	23,671
FIRE	Stations with Pumpers	Fire Station 11 Pumper	110,731	-	-	-	-	-	-	20,622	21,384	22,146	22,909	23,671
FIRE	Stations with Pumpers	Fire Station 12 (West Lake/Middle Creek)	225,375	-	-	-	-	-	-	-	-	72,625	75,125	77,625
FIRE	Stations with Pumpers	Fire Station 12 (West Lake/Middle Creek) Pumper	90,110	-	-	-	-	-	-	-	21,384	22,146	22,909	23,671
GENERAL	Special Facilities for Operations	Garmon Operations Center												
		Facility Improvements - Phase II	1,336,140	-	-	-	-	-	203,190	210,990	218,790	226,590	234,390	242,190
PARKS	Community Centers	Mills Park Community Center	10,893,750	-	-	-	-	-	-	2,028,750	2,103,750	2,178,750	2,253,750	2,328,750
PARKS	Greenways	Batchelor Branch Greenway - Phases II and III	70,920	-	-	-	-	-	-	-	16,830	17,430	18,030	18,630
PARKS	Greenways	Black Creek Greenway Renovation - Phases I, II & V	42,825	-	-	-	-	-	6,513	6,763	7,013	7,263	7,513	7,763
PARKS	Greenways	Crabtree Creek Greenway - Bond Park Segment	11,269	-	-	-	-	-	-	-	-	3,631	3,756	3,881
PARKS	Greenways	Dutchman's Branch Greenway - Phase I	51,390	-	-	-	-	-	7,815	8,115	8,415	8,715	9,015	9,315
PARKS	Greenways	Greenwood Circle Greenway (Walnut Street Park)	93,150	-	-	-	-	-	-	-	-	-	-	93,150
PARKS	Greenways	Middle Creek School Park/Greenway	58,100	-	-	-	-	-	-	10,820	11,220	11,620	12,020	12,420
PARKS	Greenways	O'Kelly Chapel Road Streetside Trail	9,315	-	-	-	-	-	-	-	-	-	-	9,315
PARKS	Greenways	Panther Creek Greenway - Phase II	58,100	-	-	-	-	-	-	10,820	11,220	11,620	12,020	12,420
PARKS	Greenways	Piney Plains Greenway - Phase II	51,390	-	-	-	-	-	7,815	8,115	8,415	8,715	9,015	9,315
PARKS	Greenways	Swift Creek Greenway (From Bond Park to Laura Duncan Rd)	30,550	-	-	-	-	-	-	-	-	-	15,025	15,525
		Swift Creek Greenway												
PARKS	Greenways	(Lake Pine Drive to Regency Parkway)	23,288	-	-	-	-	-	-	-	-	-	-	23,288
PARKS	Greenways	White Oak Creek Greenway Trailhead	217,875	-	-	-	-	-	-	40,575	42,075	43,575	45,075	46,575
PARKS	Parks	Dunham Park Improvements	83,449	-	-	-	10,646	11,071	11,496	11,921	12,346	12,771	13,196	
PARKS	Parks	P-001 Eastern Gateway Park	77,625	-	-	-	-	-	-	-	-	-	-	77,625
PARKS	Parks	P-002 Neighborhood Park	360,600	-	-	-	-	-	-	-	-	116,200	120,200	124,200
PARKS	Parks	P-006 Neighborhood Park	589,050	-	-	-	75,150	78,150	81,150	84,150	87,150	90,150	93,150	
PARKS	Parks	P-010 Neighborhood Park	981,750	-	-	-	125,250	130,250	135,250	140,250	145,250	150,250	155,250	
PARKS	Parks	P-011 Neighborhood Park	194,063	-	-	-	-	-	-	-	-	-	-	194,063
PARKS	Public Art	Public Art - P-006 Neighborhood Park	14,726	-	-	-	1,879	1,954	2,029	2,104	2,179	2,254	2,329	
PARKS	Public Art	Public Art - P010 Neighborhood Park	14,726	-	-	-	1,879	1,954	2,029	2,104	2,179	2,254	2,329	
PARKS	Public Art	Public Art - Park and Greenway Amenities	19,913	1,654	1,729	1,804	1,879	1,954	2,029	2,104	2,179	2,254	2,329	
PARKS	Public Art	Public Art - TCAP - Digital Arts Center	4,583	-	-	-	-	-	-	-	-	-	2,254	2,329
		Renovations - Park and Greenway												
PARKS		Dunham Park Improvements	83,449	-	-	-	10,646	11,071	11,496	11,921	12,346	12,771	13,196	
PARKS	Special Facilities	Cary Tennis Park Expansion - Interlocal	199,125	16,538	17,288	18,038	18,788	19,538	20,288	21,038	21,788	22,538	23,288	
PARKS	Special Facilities	Safety Town for Kids	45,075	-	-	-	-	-	-	-	-	14,525	15,025	15,525
PARKS	Special Facilities	TCAP - Digital Arts Center	305,500	-	-	-	-	-	-	-	-	-	150,250	155,250
PARKS	Special Facilities	WakeMed Soccer Park Facility Improvements - Interlocal	68,723	-	-	-	8,768	9,118	9,468	9,818	10,168	10,518	10,868	
PARKS	Special Projects	Park, Greenway and Facility Sign Plan Implementation	13,275	1,103	1,153	1,203	1,253	1,303	1,353	1,403	1,453	1,503	1,553	
TRANSPORTATION	Transit	GoCary ADA Bus Stop Improvements	265,500	22,050	23,050	24,050	25,050	26,050	27,050	28,050	29,050	30,050	31,050	
TRANSPORTATION	Transit	GoCary Bus Stop Solar Lighting Upgrades	182,588	-	17,288	18,038	18,788	19,538	20,288	21,038	21,788	22,538	23,288	
TRANSPORTATION	Transit	GoCary Downtown Multi-Modal Station	1,070,625	-	-	-	-	162,813	169,063	175,313	181,563	187,813	194,063	
TRANSPORTATION	Transit	GoCary New Customer Information Technology	110,200	-	-	12,025	12,525	13,025	13,525	14,025	14,525	15,025	15,525	
TRANSPORTATION	Transit	GoCary New Fare Technology	182,588	-	17,288	18,038	18,788	19,538	20,288	21,038	21,788	22,538	23,288	
TRANSPORTATION	Transit	GoCary Regional Operations and Maintenance Facility	1,070,625	-	-	-	-	162,813	169,063	175,313	181,563	187,813	194,063	
TRANSPORTATION	Transit	GoCary Transfer Center Improvements	513,900	-	-	-	-	78,150	81,150	84,150	87,150	90,150	93,150	
TRANSPORTATION	Control Systems	Signal System - Camera Coverage Expansion	2,955	-	-	-	-	-	-	701	726	751	776	
WATER	Other Water Projects	Aquastar Additional Infrastructure	22,040	-	-	2,405	2,505	2,605	2,705	2,805	2,905	3,005	3,105	
WATER	Water Storage Tanks	Kilmaine Water Storage Tank	238,950	19,845	20,745	21,645	22,545	23,445	24,345	25,245	26,145	27,045	27,945	
Total Estimated Operating & Maintenance Impacts			20,576,330	61,189	98,539	117,244	356,336	1,019,528	3,236,524	3,395,089	3,723,108	4,018,798	4,549,975	
Total Estimated Operating Impacts			39,533,619	61,189	98,539	117,244	381,386	1,052,742	5,570,263	5,885,228	8,005,078	8,823,793	9,538,158	

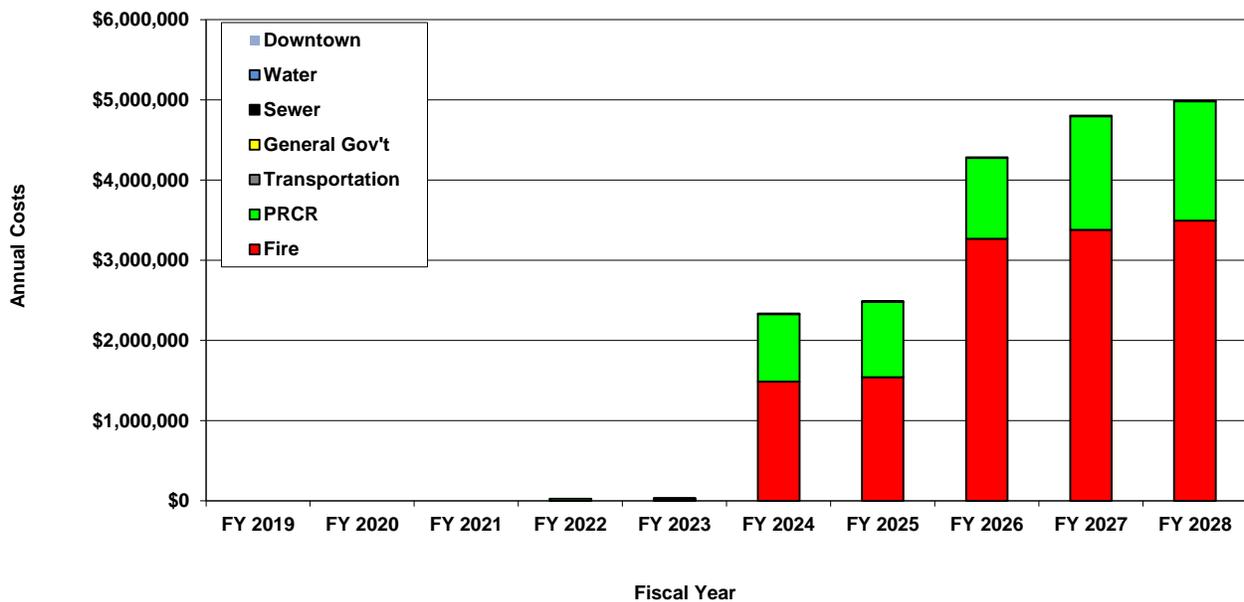
CUMULATIVE IMPACTS OF FYS 2018 - 2028 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

PERSONNEL IMPACTS - presented by Capital Project Type

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2019	-	-	-	-	-	-	-	-
FY 2020	-	-	-	-	-	-	-	-
FY 2021	-	-	-	-	-	-	-	-
FY 2022	-	-	-	-	25,050	-	-	25,050
FY 2023	-	-	-	-	26,050	7,164	-	33,214
FY 2024	-	-	-	1,487,750	838,550	7,439	-	2,333,739
FY 2025	-	-	-	1,542,750	939,675	7,714	-	2,490,139
FY 2026	-	-	-	3,268,125	1,005,856	7,989	-	4,281,970
FY 2027	-	-	-	3,380,625	1,416,106	8,264	-	4,804,995
FY 2028	-	-	-	3,493,125	1,486,519	8,539	-	4,988,183
Total	-	-	-	13,172,375	5,737,806	47,108	-	18,957,289

Note: Personnel impacts associated with capital projects coming on-line during FY 2018 are incorporated within the Town of Cary's Annual Operating Budget. Personnel impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

**Total Cumulative Personnel Costs Associated With
FYs 2018-2028 CIB/P Projects**



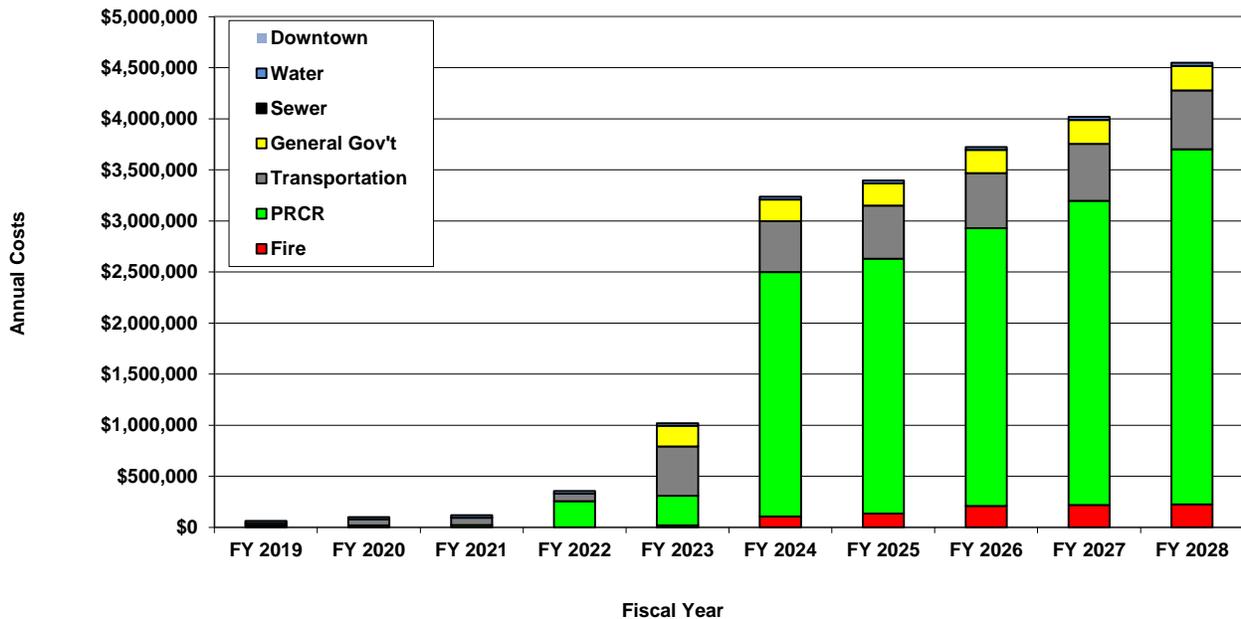
CUMULATIVE IMPACTS OF FYS 2018 - 2028 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

OPERATING & MAINTENANCE IMPACTS - *presented by Capital Project Type*

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2019	19,845	-	22,050	-	19,294	-	-	61,189
FY 2020	20,745	-	57,625	-	20,169	-	-	98,539
FY 2021	24,050	-	72,150	-	21,044	-	-	117,244
FY 2022	25,050	-	75,150	-	256,136	-	-	356,336
FY 2023	26,050	-	481,925	19,859	288,504	203,190	-	1,019,528
FY 2024	27,050	-	500,425	107,516	2,390,544	210,990	-	3,236,524
FY 2025	28,050	-	519,626	132,874	2,495,749	218,790	-	3,395,089
FY 2026	29,050	-	538,151	210,236	2,719,080	226,590	-	3,723,108
FY 2027	30,050	-	556,676	217,473	2,980,209	234,390	-	4,018,798
FY 2028	31,050	-	575,201	224,710	3,476,824	242,190	-	4,549,975
Total	260,990	-	3,398,980	912,669	14,667,551	1,336,140	-	20,576,330

Note: Operating impacts associated with capital projects coming on-line during FY 2018 are incorporated within the Town of Cary's Annual Operating Budget. Operating impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

**Total Cumulative Operating and Maintenance Costs Associated With
FYs 2018-2028 CIB/P Projects**

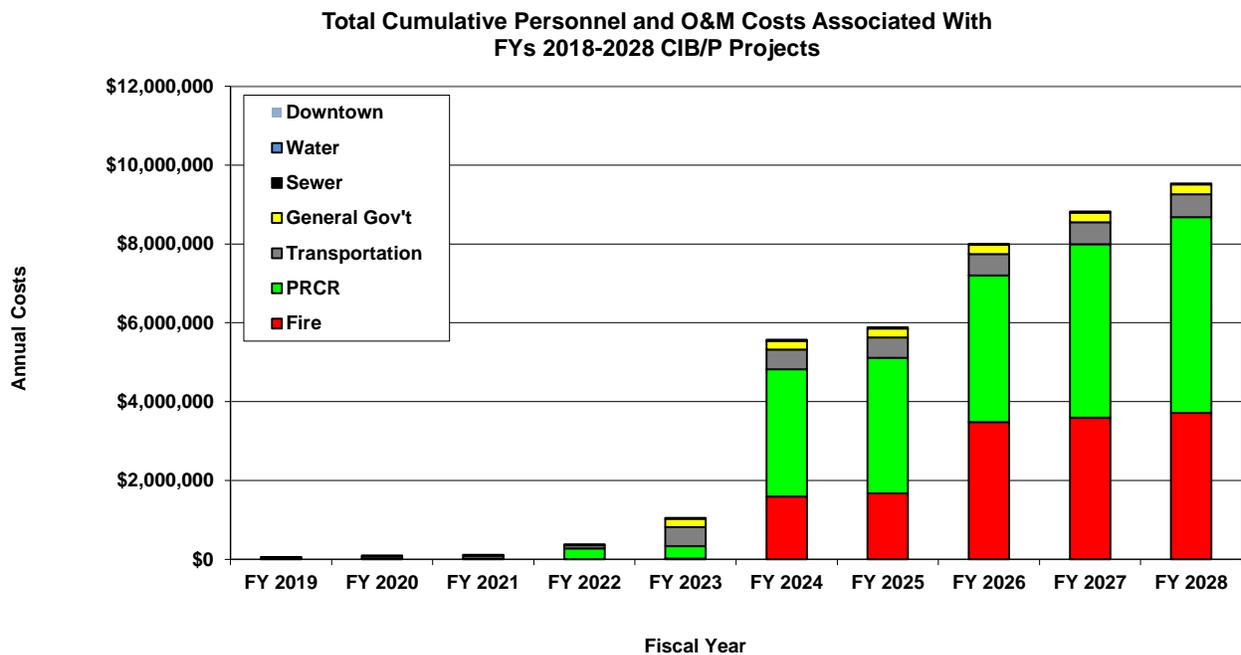


CUMULATIVE IMPACTS OF FYS 2018 - 2028 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS (BY OPERATING EXPENDITURE CATEGORY)

COMBINED IMPACTS (Personnel and O&M) - presented by Capital Project Type

Fiscal Year of Impact	Water	Sewer	Transportation	Fire	PRCR	General Gov't	Downtown	Total
FY 2019	19,845	-	22,050	-	19,294	-	-	61,189
FY 2020	20,745	-	57,625	-	20,169	-	-	98,539
FY 2021	24,050	-	72,150	-	21,044	-	-	117,244
FY 2022	25,050	-	75,150	-	281,186	-	-	381,386
FY 2023	26,050	-	481,925	19,859	314,554	210,354	-	1,052,742
FY 2024	27,050	-	500,425	1,595,266	3,229,094	218,429	-	5,570,263
FY 2025	28,050	-	519,626	1,675,624	3,435,424	226,504	-	5,885,228
FY 2026	29,050	-	538,151	3,478,361	3,724,936	234,579	-	8,005,078
FY 2027	30,050	-	556,676	3,598,098	4,396,315	242,654	-	8,823,793
FY 2028	31,050	-	575,201	3,717,835	4,963,343	250,729	-	9,538,158
Total	260,990	-	3,398,980	14,085,044	20,405,358	1,383,248	-	39,533,619

Note: Impacts associated with capital projects coming on-line during FY 2018 are incorporated within the Town of Cary's Annual Operating Budget. Impacts contained within this schedule are effective the first year that a project is complete and fully functioning.



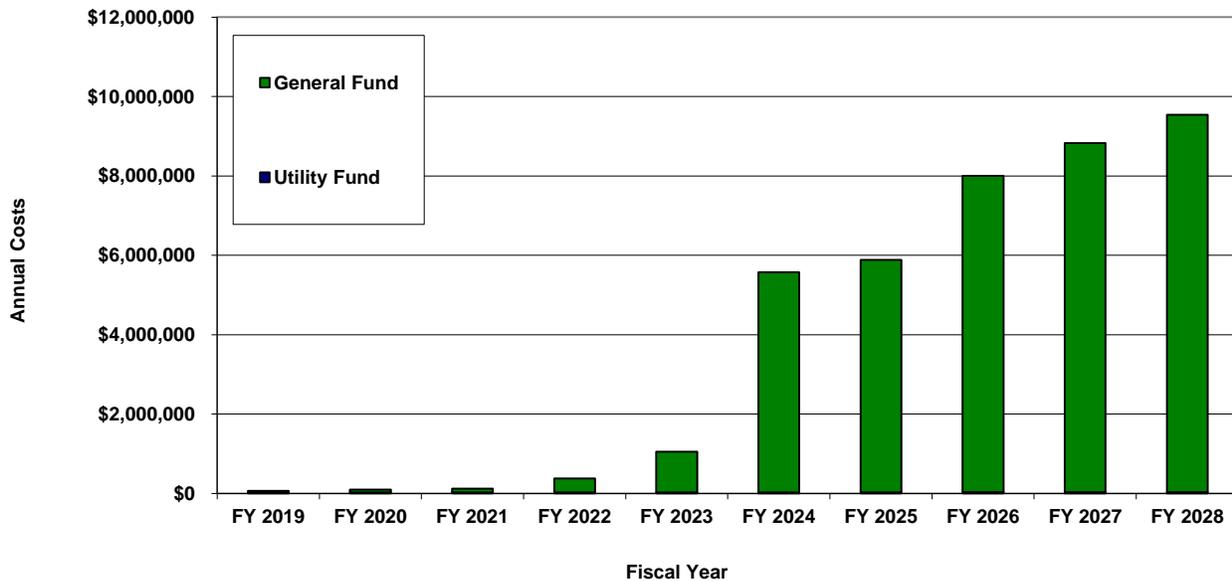
CUMULATIVE IMPACTS OF FYS 2018 - 2028 CAPITAL IMPROVEMENTS BUDGET/PLAN PROJECTS ON FUTURE OPERATING BUDGETS

COMBINED IMPACTS (Personnel and O&M) - presented by Operating Fund

Fiscal Year of Impact	Utility Fund	General Fund	Total
FY 2019	19,845	41,344	61,189
FY 2020	20,745	77,794	98,539
FY 2021	24,050	93,194	117,244
FY 2022	25,050	356,336	381,386
FY 2023	26,050	1,026,692	1,052,742
FY 2024	27,050	5,543,213	5,570,263
FY 2025	28,050	5,857,178	5,885,228
FY 2026	29,050	7,976,028	8,005,078
FY 2027	30,050	8,793,743	8,823,793
FY 2028	31,050	9,507,108	9,538,158
Total	260,990	39,272,629	39,533,619

Note: Impacts associated with capital projects coming on-line during FY 2018 are incorporated within the Town of Cary's Annual Operating Budget. Impacts contained within this schedule are effective the first year that a project is complete and fully functioning.

Total Operating Impacts (Personnel and O&M) of Projects Contained Within the FYs 2018 - 2028 CIB/P - by Operating Fund



**CAPITAL PROJECT SPENDING STATUS
ACTIVE PROJECTS AS OF JUNE 30, 2017**

Project Category	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
Water	203,414,677	114,480,927	88,933,750	56%
Sewer	323,452,959	245,831,332	77,621,627	76%
Total Utility Capital Projects	526,867,636	360,312,260	166,555,376	68%
Transportation	141,990,266	73,434,616	68,555,650	52%
Fire	12,146,000	3,167,899	8,978,101	26%
Parks, Recreation and Cultural Resources	68,840,590	37,813,017	31,027,573	55%
General Government	43,030,514	30,000,333	13,030,181	70%
Downtown	17,213,973	740,461	16,473,512	4%
Total General Capital Projects	283,221,343	145,156,326	138,065,017	51%
GRAND TOTAL	810,088,979	505,468,585	304,620,394	62%

*Projects noting 100% spending remain open until any warranty period is complete and encumbrances are liquidated or closed.

WATER PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
WT1097	NC55 Water Line Extension - Phase II	2,337,000	9,562	2,327,438	0.4%
WT1129	Green Level West Road Water Line - Phase I	3,571,000	2,859,653	711,347	80%
WT1142	Wimberly Road Water Line	4,306,000	477,060	3,828,940	11%
WT1148	CAWTF - Phase III Expansion and Improvements - 56 MGD	77,500,000	75,259,080	2,240,920	97%
WT1156	Water System Monitoring Protection	608,000	1,000	607,000	0.2%
WT1157	TCAP - Streetscape Water Upgrades	1,313,000	862,061	450,939	66%
WT1161	Cary Parkway SW Water Line Reinforcement	8,650,000	859,174	7,790,826	10%
WT1163	CAWTF - Lake Aeration Mixing System	4,876,000	4,846,577	29,424	99%
WT1166	Holt Road to Davis Drive Waterline Connection	1,920,000	50,970	1,869,030	3%
WT1167	Large Valve Repair/Replacement - FY 2009	200,000	138,515	61,485	69%
WT1171	CAWTF - NC540 Water Conflicts	4,606,460	4,139,085	467,375	90%
WT1172	Old Apex Rd Waterline Reinforcement	1,694,000	6,978	1,687,022	0.4%
WT1177	Jordan Lake Partnership	367,500	214,516	152,984	58%
WT1178	Jenks Carpenter Rd - Holt Rd Waterline Reinforcement	3,053,000	21,150	3,031,850	1%
WT1189	Western Cary Water Storage Tank	9,310,000	2,256,276	7,053,724	24%
WT1191	Water Main Condition Assessment Program	325,000	146,235	178,765	45%
WT1193	Long Range Water Resources Plan	1,604,607	1,392,355	212,252	87%
WT1194	CAWTF - Raw Water Pipeline	22,250,000	3,044,959	19,205,041	14%
WT1195	Cary/Raleigh Water System Interconnection	1,313,000	907,157	405,843	69%
WT1198	Old Apex Tank Flow Meter and Control Valve and Vault	125,000	104,875	20,125	84%
WT1199	Old Apex Tank Study and Improvements	630,000	373,880	256,120	59%
WT1200	Pressure Zone Separation Control Valve	25,000	2,938	22,062	12%
WT1206	CAWTF - Air Release Valve Upgrades for 42" Waterline	1,075,000	110,318	964,682	10%
WT1207	Cary Parkway and NC 54 Water Line Connection	200,000	5,986	194,015	3%
WT1209	CAWTF - Raw Water Line Cleaning	200,000	104,388	95,612	52%
WT1212	Green Level West Water Line - Phase III	2,400,000	-	2,400,000	-
WT1213	Harrison Elevated Water Tank Renovation	800,000	656,368	143,632	82%
WT1214	Kilmayne Water Storage Tank	7,000,000	1,468,819	5,531,181	21%
WT1216	Plumtree Tank Modifications	2,050,000	1,696,412	353,588	83%
WT1219	Water System Water Quality Enhancements	150,000	-	150,000	-
WT1221	CAWTF - Residual Transfer Pump Replacements	250,000	-	250,000	-
WT1223	Kit Creek Road Water Line Connection	725,000	67,826	657,174	9%
WT1227	Morrisville Parkway Utility Agreement NCDOT	238,504	238,504	0.08	100%
WT1228	AquaStar - Additional Infrastructure	75,000	-	75,000	-
WT1230	CAWTF - Improvements - FY2015	105,000	48,515	56,485	46%
WT1231	CAWTF - Clearwell Repainting	175,000	4,200	170,800	2%
WT1232	CAWTF - Ozone Generator Reconditioning	200,000	191,209	8,791	96%
WT1233	Remote Water System Programmable Logic Controller Replacements and SCADA Upgrades	150,000	4,906	145,094	3%
WT1234	Water Line Upgrades - FY 2015	600,000	600,000	-	100%
WT1236	CAWTF - Equipment Storage Building	50,000	-	50,000	-
WT1238	CAWTF - Improvements - FY 2016	30,000	-	30,000	-
WT1239	CAWTF - Jordan Lake Capacity Allocation	655,743	-	655,743	-
WT1240	CAWTF - New Clearwell	5,400,000	-	5,400,000	-
WT1241	CAWTF - Process Basin Rehabilitation	4,000,000	1,088,000	2,912,000	27%
WT1242	Crossroads Storage Tank and Pump Station	5,600,000	402,116	5,197,884	7%
WT1243	Water Main Extension - FY 2016	302,777	92,909	209,868	31%
WT1244	Holly Brook Water Line	2,776,439	298,118	2,478,321	11%
WT1245	Kildaire Farm Water Line Reinforcement Central	3,100,000	5,950	3,094,050	0.2%
WT1246	Throttling Valve at Surles Court Pump Station	100,000	64,940	35,060	65%
WT1247	Water Line Upgrades - FY 2016	5,000,000	4,507,485	492,516	90%
WT1249	Water Resources Master Plan	500,000	349,000	151,000	70%
WT1250	Water System - Water Line Locating and Testing	350,000	175,000	175,000	50%
WT1251	Water System Valve Replacements - FY 2016	125,000	-	125,000	-
WT1252	Arthur Pierce Rd WL Connection	500,000	-	500,000	-
WT1254	Cary-Apex-Chatham Interconnection	50,000	-	50,000	-
WT1255	Cary-Apex-Holly Springs Interconnection	100,000	-	100,000	-
WT1256	Water System Valve Replacements - FY 2017	125,000	-	125,000	-
WT1257	Davis Drive Booster Pump Station Modifications	125,000	-	125,000	-
WT1258	Carpenter Elevated Water Storage Tank - Repainting	150,000	-	150,000	-
WT1259	Water Main Extensions - FY 2017	306,216	-	306,216	-

WATER PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
WT1260	New Water Storage Tank Sites	1,000,000	-	1,000,000	-
WT1261	Towerview Court Water Line Connection	75,000	4,340	70,660	6%
WT1263	Dump Truck - 12-14 Cubic Yards - Water FY 2017	167,181	155,396	11,785	93%
WT1265	Water Line Upgrades FY 2017	5,000,000	3,761,434	1,238,566	75%
WT1267	Water Line Oversizings - FY 2017	152,000	-	152,000	-
WT1268	Water System - Air Release Valve Replacements	150,000	-	150,000	-
WT5017	Annexation - Franklin Heights Water Line	416,250	404,734	11,516	97%
WT5018	Annexation - Pink Acres	130,000	-	130,000	-
TOTAL WATER PROJECTS		203,414,677	114,480,927	88,933,750	56%

SEWER PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
SW1091	Force Main Discharge Manhole Coverings	215,600	215,600	-	100%
SW1105	Western Cary Collection System Odor Control	930,000	929,999	1	100%
SW1115	Kit Creek Basin Sanitary Sewers	971,548	47,500	924,048	5%
SW1121	Wastewater SCADA	1,266,694	1,143,470	123,224	90%
SW1123	WWRWMF - New Water Reclamation Facility	136,678,379	135,764,814	913,565	99%
SW1127	MM - Telemetry Upgrade - Morrisville Wastewater Pump Stations	160,000	160,000	-	100%
SW1130	Green Level Interceptor	7,510,969	7,285,778	225,191	97%
SW1132	MM - Kit Creek Basin Sanitary Sewers	5,471,452	3,007,525	2,463,927	55%
SW1138	NW Area/Jordan Lake Reclaimed Water - Phase II	7,457,176	5,102,852	2,354,324	68%
SW1143	WWRWMF - Western Cary Pump Station Upgrades	11,279,482	9,225,301	2,054,181	82%
SW1144	WWRWMF - Western Cary Force Main South	9,943,176	6,351,764	3,591,412	64%
SW1146	WWRWMF - Beaver Creek Pump Station	20,157,682	16,098,340	4,059,342	80%
SW1148	WWRWMF - SCADA	3,570,954	3,534,215	36,739	99%
SW1154	Biosolid Aeration System Improvements	2,500,000	2,091,512	408,488	84%
SW1155	Crabtree/York Interceptor Improvements	475,000	473,343	1,657	100%
SW1156	Force Main Inspection and Rehabilitation - FY 2008	3,600,000	3,598,681	1,319	100%
SW1157	MM - NW Cary Wastewater Conveyance to WWRWMF	818,000	818,000	-	100%
SW1171	Swift Creek Regional Pump Station Improvements	1,590,000	1,126,511	463,489	71%
SW1172	Town Hall Drive Pump Station	215,000	215,000	-	100%
SW1174	Walnut Creek Pump Station Electrical Improvements	450,000	443,617	6,383	99%
SW1175	Wastewater Pump Station Improvements	1,794,014	1,274,014	520,000	71%
SW1176	Wastewater Pump Station Parallel Force Main	7,154,548	4,146,411	3,008,137	58%
SW1177	TCAP - Streetscape Sewer Upgrades	1,278,000	770,222	507,778	60%
SW1182	WWRWMF - Effluent Pipeline - Phase II	30,720,840	23,592,045	7,128,795	77%
SW1184	Carystone Pump Station Elimination	410,000	12,330	397,670	3%
SW1186	MacGregor Park Pump Station Elimination	360,000	354,409	5,591	98%
SW1191	Paramount Pump Station Elimination	2,010,000	159,349	1,850,651	8%
SW1200	WWRWMF - Water and Sewer Policy Implementation	2,358,645	2,348,676	9,969	100%
SW1202	Force Main Inspection and Rehabilitation - FY 2010	2,500,000	116,405	2,383,595	5%
SW1203	Cleaning and Video Surveying of Sewer Interceptors	2,436,300	1,691,969	744,331	69%
SW1211	Updated Reclaimed Water System Master Plan	350,000	290,600	59,400	83%
SW1217	SCWRF - Headworks Upgrades	525,000	450,143	74,857	86%
SW1223	Reclaimed Water Main Extensions - FY 2012	105,000	-	105,000	-
SW1232	Sewer System Repair/Rehabilitation - FY 2012	1,294,052	1,293,991	61	100%
SW1235	Kit Creek Pump Station Improvements	1,300,000	1,300,000	-	100%
SW1238	Morris Branch Pump Station Improvements	800,000	800,000	-	100%
SW1239	Upper Crabtree Creek Pump Station and Force Main	3,080,000	254,400	2,825,600	8%
SW1240	Walnut Creek Pump Station Check Valve	265,000	140,012	124,988	53%
SW1241	Extend Reclaimed Water Mains - FY 2013	110,250	-	110,250	-
SW1245	Sewer System Repair/Rehabilitation - FY 2013	500,000	500,000	-	100%
SW1247	Lower Swift Creek Parallel Interceptor	3,150,000	81,695	3,068,305	3%
SW1249	Nancy Branch Interceptor Capacity	1,400,000	-	1,400,000	-
SW1251	SCWRF - Demolition of Lagoons	325,000	54,580	270,420	17%
SW1252	Force Main Easement Clearing	200,000	83,548	116,452	42%
SW1254	NCWRF - Mixer Replacement	500,000	492,556	7,444	99%
SW1256	Copperleaf Reserve Easement Acquisition	205,000	116,755	88,246	57%
SW1257	Blanche Dr Sewer Improvements	175,000	-	175,000	-
SW1258	Blanche Dr Pump Station Expansion - Inflow/Infiltration Reduction	1,200,000	-	1,200,000	-
SW1259	Holly Springs Rd Sewer Rehabilitation	365,000	300,795	64,205	82%
SW1260	MM - Aviation Pump Station Upgrade and York Interceptor Basin Study	1,650,000	1,500,263	149,737	91%
SW1263	NCWRF - SCADA Conversion	1,250,000	99,701	1,150,299	8.0%
SW1264	Sewer Flow Management Modeling	300,000	79,000	221,000	26%
SW1265	SCWRF - High Efficiency Turbo Blower Replacement - FY 2014	250,000	237,040	12,960	95%
SW1266	SCWRF - Facility Improvements	435,000	260,020	174,980	60%
SW1269	Jack Branch Interceptor	1,150,000	6,940	1,143,060	1%
SW1270	Lynn's Branch Parallel Interceptor	250,000	-	250,000	-
SW1272	NCWRF - Pavement Repairs	50,000	48,709	1,292	97%
SW1274	NCWRF - Variable Frequency Drive Replacement	200,000	199,788	212	100%
SW1276	Reclaimed Water Blowoff Metering	210,000	9,165	200,835	4%
SW1279	Sewer System Repair/Rehabilitation - FY 2015	1,600,000	1,509,293	90,707	94%
SW1280	SCWRF - Aeration Basin and Air Header Repairs	175,000	111,234	63,766	64%
SW1284	Basin W12 Regional Pump Station, Gravity Sewer and Force Main	1,800,000	944,675	855,325	52%
SW1286	Reclaimed Water Main Extension - FY 2016	127,628	-	127,628	-
SW1287	Terrace II Pump Station Elimination	250,000	2,750	247,250	1%
SW1288	Hollybrook - Phases I - III Sewer Extension	2,886,706	549,532	2,337,174	19%
SW1290	NCWRF - Capacity Analysis and Re-Rating	6,800,000	296,025	6,503,975	4%
SW1291	NCWRF - Clarifier Equipment Repair and Replacement	200,000	196,439	3,561	98%

SEWER PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
SW1292	NCWRF - Diffuser and Air Replacement	500,000	34,536	465,464	7%
SW1295	NCWRF - Variable Frequency Drive Replacement	200,000	15,353	184,648	8%
SW1296	Pump Station Variable Frequency Drive Replacement	125,000	-	125,000	-
SW1299	SCWRF - Roof Replacement	74,300	72,082	2,218	97%
SW1300	SCWRF - Dryer - Centrifuge Rebuild	175,000	64,016	110,984	37%
SW1301	SCWRF - Dryer - Dewatered Cake Pump	225,000	71,341	153,659	32%
SW1302	SCWRF - Dryer - Drum Replacement	1,200,000	-	1,200,000	-
SW1303	Sewer System Repair/Rehabilitation - FY 2016	2,730,407	433,055	2,297,352	16%
SW1305	Reclaimed Water Main Extensions - FY 2017	134,010	-	134,010	-
SW1308	RDU Center Pump Station Force Main Replacements	1,570,000	-	1,570,000	-
SW1309	Reclaimed Water Line Oversizings - FY 2017	159,500	-	159,500	-
SW1310	Sanitary Sewer Oversizings - FY 2017	190,000	-	190,000	-
SW1311	SCWRF-Clarifier Equipment Replacement	200,000	-	200,000	-
SW1312	SCWRF-Generator Auto Transfer Switch Replacement	90,000	-	90,000	-
SW1313	SCWRF-Thermal Biosolids Dryer-Dewatered Cake Mixer Repair/Replacement	100,000	-	100,000	-
SW1314	SCWRF- Thermal Biosolids Dryer - Induction Fan Replacements	100,000	-	100,000	-
SW1315	Sewer System Repair/Rehabilitation - FY 2017	5,985,982	-	5,985,982	-
SW1319	Wastewater Pump Station Improvements - FY 2017	604,213	67,300	536,913	11%
SW1320	Wastewater Pump Station Parallel Force Main - FY 2017	6,370,452	31,600	6,338,852	0.5%
SW5017	Annexation - Franklin Heights Sewer Line	787,000	725,956	61,044	92%
SW5018	Annexation - Pink Acres	215,000	6,795	208,205	3%
TOTAL SEWER PROJECTS		323,452,959	245,831,332	77,621,627	76%

TRANSPORTATION PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
ST1084	Kildaire Farm Road Widening	9,657,201	9,627,117	30,084	100%
ST1107	Traffic Calming	927,808	536,922	390,886	58%
ST1116	Sidewalk Improvements - FY 2004	500,000	500,000	-	100%
ST1123	Morrisville Parkway Extension - Ph III	16,832,100	13,540,349	3,291,751	80%
ST1129	Traffic Signals - FY 2005	200,000	183,690	16,310	92%
ST1131	Thoroughfare Street Lighting	250,000	204,324	45,676	82%
ST1143	Traffic Signals - FY 2006	243,818	222,356	21,462	91%
ST1146	Annexation Areas - Street Repaving	400,000	385,364	14,636	96%
ST1147	Sidewalk Improvements - FY 2007	1,000,000	1,000,000	-	100%
ST1157	Traffic Signals - FY 2007	300,000	214,931	85,069	72%
ST1158	TCAP - Walker Street Extension	7,200,632	1,695,690	5,504,942	24%
ST1173	Traffic Signals - FY 2008	229,967	5,375	224,592	2%
ST1179	Sidewalk Improvements - FY 2009	1,000,000	1,000,000	-	100%
ST1187	Traffic Signals - FY 2009	300,000	266,582	33,418	89%
ST1196	Sidewalk Improvements - FY 2011	500,000	500,000	-	100%
ST1198	Traffic Signals - FY 2011	400,000	85,572	314,428	21%
ST1204	Carpenter Fire Station Road/CSX Rail Grade Separation	18,220,000	2,089,679	16,130,321	11%
ST1206	Green Level West Road Widening	14,000,000	5,895,489	8,104,511	42%
ST1207	Reedy Creek Road Improvements	670,000	655,141	14,859	98%
ST1208	Walnut Street Improvements	7,000,000	5,468,684	1,531,316	78%
ST1210	Sidewalk Improvements - FY 2012	500,000	500,000	-	100%
ST1211	Bicycle Facility Implementation - FY 2012	20,000	8,867	11,133	44%
ST1217	Traffic Signals - FY 2012	200,000	38,146	161,854	19%
ST1220	Morrisville Parkway Interchange	3,125,000	1,268,768	1,856,232	41%
ST1223	Sidewalk Improvements - FY 2013	500,000	275,366	224,634	55%
ST1224	Bicycle Facility Implementation - FY 2013	20,000	16,018	3,982	80%
ST1226	Traffic Signals - FY 2013	250,000	-	250,000	-
ST1230	Cary Parkway - Evans Road to N Harrison Avenue	2,800,000	1,625,518	1,174,482	58%
ST1231	Cary Parkway and High House Road Intersection	3,920,000	850,804	3,069,196	22%
ST1234	Green Level West - Sidewalk	25,000	25,000	-	100%
ST1235	Traffic Signal - Cary Glen/Carpenter Fire Station Road	250,000	163,294	86,706	65%
ST1237	Intersection Improvements - Reduce Congestion	3,000,000	978,148	2,021,852	33%
ST1238	DT - Streetscape Improvements - Academy Street/Dry Avenue	8,000,000	7,663,439	336,561	96%
ST1239	Signal System - 2012 Bond	2,900,000	2,529,734	370,266	87%
ST1240	Sidewalks - 2012 Bond	1,832,000	164,197	1,667,803	9%
ST1241	Bicycle Facility Improvements - 2012 Bond	975,700	711,476	264,224	73%
ST1243	Street Improvements - FY 2015	5,000,000	5,000,000	-	100%
ST1244	Sidewalk Improvements - FY 2015	600,000	104,488	495,512	17%
ST1245	Lake Pine Widening and Sidewalk Improvements	133,000	133,000	-	100%
ST1246	Spot Improvements - Level of Service, Safety and Citizen Concerns - FY 2015	250,000	46,690	203,310	19%
ST1247	Traffic Signals FY2015	250,000	6	249,994	0.002%
ST1248	Morrisville Parkway Interchange - NCTA	5,100,000	-	5,100,000	-
ST1249	Yates Store Road Through Montvale	500,000	-	500,000	-
ST1251	Intersection Improvements - FY 2016	1,000,000	63,562	936,438	6%
ST1252	Morrisville Parkway - Carpenter Upchurch Road Intersection	1,200,000	81,358	1,118,642	7%
ST1253	Sidewalk and Pedestrian Improvements - FY 2016	780,000	87,114	692,886	11%
ST1254	Traffic Signal System Camera Coverage Expansion	350,000	257,068	92,932	73%
ST1255	Spot Improvements - FY 2016	200,000	18,703	181,297	9%
ST1256	Street Improvements - FY 2016	5,619,000	5,618,938	62	100%
ST1257	Green Level Church Road at Horton Creek	300,000	275,633	24,367	92%
ST1258	GoCary Transit - FY 2017	15,000	-	15,000	-
ST1259	Intersection Improvements - FY 2017	3,250,000	200,000	3,050,000	6%
ST1260	Sidewalk Improvements - FY 2017	1,000,000	17	999,983	0.002%
ST1261	Street Improvements - FY 2017	6,927,000	424,432	6,502,568	6%

TRANSPORTATION PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
ST6000	STM - Storm Drainage - MAIN	926,040	-	926,040	-
ST6025	STM - Green Level Church Road	109,000	35,701	73,299	33%
ST6029	STM - Greg Dr at Key West Mews	18,000	8,000	10,000	44%
ST6030	STM - Walnut St Near Warren Ave	95,000	3,685	91,315	4%
ST6032	STM - Stonewater Glen	155,000	137,245	17,755	89%
ST6033	STM - Queensferry Drainage	5,000	1,266	3,734	25%
ST6034	STM - Trailing Fig Culvert Repair	20,000	14,450	5,550	72%
ST6035	STM - Vinecrest Court	25,000	16,520	8,480	66%
ST6036	STM-Bowden St Drainage Improvements	9,000	8,034	966	89%
ST6037	STM-Bridle Creek Culvert Assessment	5,000	2,665	2,335	53%
TOTAL TRANSPORTATION PROJECTS		141,990,266	73,434,616	68,555,650	52%

FIRE PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
FR1038	Traffic Signal Pre-emption - Phase II	221,000	102,906	118,094	47%
FR1044	Fire Station - Northwestern Cary	925,000	814,362	110,638	88%
FR1047	Fire Station - Southwestern Cary	800,000	3,200	796,800	0.4%
FR1048	Fire Station #9 - Walnut Street Area	7,900,000	619,045	7,280,955	8%
FR1050	Fire Station #2 Foundation Repairs	250,000	39,400	210,600	16%
FR1051	Aerial Ladder Truck - Northwestern Area	1,400,000	999,554	400,446	71%
FR1052	Fire Pumper Replacement - #1958	650,000	589,432	60,568	91%
TOTAL FIRE PROJECTS		12,146,000	3,167,899	8,978,101	26%

PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
PR1039	Greenway Land and Open Space	1,480,300	1,265,988	214,312	86%
PR1074	Jack Smith Park	4,540,345	4,439,689	100,656	98%
PR1095	New Hope Church Road Trailhead Park	2,075,431	1,970,176	105,255	95%
PR1111	Mills Park	1,810,000	1,620,967	189,033	90%
PR1128	AM Howard Farm	179,789	100,027	79,762	56%
PR1129	Black Creek Greenway Renovation - Phases I and II	375,000	374,180	820	100%
PR1140	Public Art - TCAP Walker Street	100,000	96,800	3,200	97%
PR1143	Roberts Road Park	250,000	-	250,000	-
PR1144	Carpenter Neighborhood Park	2,983,000	2,962,455	20,545	99%
PR1146	Sertoma Amphitheatre and Restroom Renovation	200,000	3,000	197,000	2%
PR1151	Old Reedy Creek Road Trailhead and Park	1,105,000	977,904	127,096	88%
PR1155	Cary Tennis Park Court Renovations	100,000	100,000	-	100%
PR1158	PRCR Venue Wayfinding Signage	243,000	153,379	89,621	63%
PR1159	Park Greenway and Facility Sign Plan	370,000	321,831	48,169	87%
PR1164	USAB Facility Improvements - Interlocal	6,455,000	110,500	6,344,500	2%
PR1166	Crabtree Creek Greenway	5,398,000	4,466,141	931,859	83%
PR1180	Park and Greenway Renovation - FY 2013	200,000	116,031	83,969	58%
PR1182	Cary Tennis Park Court Renovations	1,200,000	1,081,032	118,968	90%
PR1184	Mills Park - Phase II	1,070,000	148,060	921,940	14%
PR1185	DT - Downtown Park	5,639,000	5,532,094	106,906	98%
PR1186	White Oak Greenway - American Tobacco Trail Section	5,630,070	117,550	5,512,520	2%
PR1187	Panther Branch Greenway - Cameron Pond	2,405,840	120,598	2,285,242	5%
PR1188	Sports Turf Fields	2,601,355	2,342,683	258,672	90%
PR1189	Landscape Architect - BONDS	362,510	353,799	8,711	98%
PR1190	Artificial Turf Fields	1,918,450	1,693,008	225,442	88%
PR1193	Cary Tennis Park Expansion - Interlocal	6,508,000	4,472,334	2,035,666	69%
PR1197	Park and Greenway Renovation - FY 2014	140,000	88,193	51,807	63%
PR1202	Soccer Park Improvements - Phase II - Interlocal	1,150,000	748,768	401,232	65%
PR1211	Park and Greenway Renovations - FY 2015	226,000	211,732	14,268	94%
PR1213	White Oak Creek Greenway Trailhead	185,000	20,000	165,000	11%
PR1218	Hinshaw Greenway Renovation	200,000	-	200,000	-
PR1220	Koka Booth Amphitheatre Improvements - FY 2016	350,000	38,650	311,350	11%
PR1221	Meeting Place Pocket Park	75,000	74,559	441	99%
PR1222	Park and Greenway Renovation - FY 2016	255,000	8,826	246,174	3%
PR1227	Sertoma Amphitheater Improvements	200,000	33,100	166,900	17%
PR1230	WakeMed Soccer Park Improvements - FY 2016	220,000	35,010	184,990	16%
PR1231	Cary Tennis Park - Lighting and Scoreboard	55,000	51,762	3,238	94%
PR1232	DT - Public Art - Parking Deck	780,000	153,100	626,900	20%
PR1236	Thomas Brooks Field Drainage/National Training Complex Field Replacement	450,000	285,835	164,165	64%
PR1237	DT - Downtown Park Master Plan	100,000	-	100,000	-
PR1238	Greenway Resurfacing - FY 2017	262,000	-	262,000	-
PR1239	Kids Together Park - Misting Garden	130,000	-	130,000	-
PR1240	MacDonald Woods Park Restrooms	300,000	42,600	257,400	14%
PR1241	Mills Park Community Center Plan	50,000	-	50,000	-
PR1242	P-006 Neighborhood Park	100,000	16,200	83,800	16%
PR1243	Park & Greenway Renovations - FY 2017	125,000	100,802	24,198	81%
PR1245	Public Art - Carpenter Park	60,000	-	60,000	-
PR1247	Recreation Facility Improvements	330,000	60,711	269,289	18%
PR1248	Recreation Facility Sound System Replacement	90,000	-	90,000	-
PR1250	Tennis Court Renovations - FY 2017	160,000	121,800	38,200	76%
PR1251	White Oak Greenway - MacArthur	7,007,500	440,749	6,566,751	6%
PR1246	Public Art - Kids Together Misting Garden	40,000	40,000	-	100%

PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS - CONTINUED

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
PR1252	Western Cary Disc Golf	50,000	-	50,000	-
PR1253	Greenway Storm Damage Repair	550,000	300,395	249,605	55%
TOTAL PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS		68,840,590	37,813,017	31,027,573	55%

GENERAL GOVERNMENT PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
GG1066	Radio System Upgrade	9,746,448	8,840,595	905,853	91%
GG1075	Sanitation and Recycling Truck Replacement	15,345,965	11,817,350	3,528,615	77%
GG1078	Replacement of the Computer-Aided Dispatch (CAD) System	1,700,000	1,588,883	111,117	93%
GG1082	PAMDR - Unnamed Tributary Swift Creek - Phase II	1,438,882	1,438,882	-	100%
GG1106	Fiber Optics Cable Plan	100,000	61,236	38,764	61%
GG1109	Historic Preservation Implementation	25,000	22,969	2,031	92%
GG1111	Work Order Management/311	850,000	802,745	47,255	94%
GG1112	One Solution Software	1,467,000	668,910	798,090	46%
GG1113	Conference Room Technology Upgrades	188,100	112,569	75,531	60%
GG1119	Public Works and Utilities Facility Improvements - Phase I - Dixon	750,000	123,420	626,580	16%
GG1126	Garmon Operations Center Improvements - Phase II	350,000	34,282	315,718	10%
GG1129	Parking Lot Resurfacing - FY 2015	169,650	140,207	29,443	83%
GG1130	Storm Water Condition Assessment - FY 2015	750,000	148,800	601,200	20%
GG1132	Town Website Overhaul	505,000	379,994	125,006	75%
GG1135	Pedestrian Crossing Upgrades	90,000	17,580	72,420	20%
GG1138	Facility Security	100,000	39,152	60,848	39%
GG1139	Heavy Equipment Replacement	1,400,000	1,219,260	180,740	87%
GG1141	Parking Lot Resurfacing - FY 2016	124,650	110,749	13,901	89%
GG1142	Relamping Town Facilities	125,000	25,000	100,000	20%
GG1143	Cary Green Program - NRWF/Wells	54,078	32,605	21,473	60%
GG1144	Application Software Replacement	575,000	165,920	409,080	29%
GG1146	Evidence Room Expansion or Relocation	2,200,000	-	2,200,000	-
GG1147	Roof Assessment & Rehabilitation	400,000	210,267	189,733	53%
GG1148	Electric Vehicle Charging Stations	12,800	-	12,800	-
GG4000	AH - Affordable Housing - Main Project	84,913	-	84,913	-
GG4001	AH - Housing Rehabilitation	665,211	587,395	77,816	88%
GG4002	AH - Downtown Rehabilitation and Façade Improvements	293,591	293,490	101	100%
GG4004	AH - Affordable Housing Administration	49,145	49,145	-	100%
GG4005	AH - Minimum Housing Demolition	99,500	26,389	73,111	27%
GG5000	Land - Land Banking (Main)	1,079,246	-	1,079,246	-
GG5001	Land - Miscellaneous Unassigned Expenditures	138,980	137,980	1,000	99%
GG5018	Land - 7017 Carpenter Fire Station Road	5,000	900	4,100	18%
GG6000	STM - Town Property Storm Drainage Project - Main	561,860	-	561,860	-
GG6006	STM - 112 Summer Lakes Dr	479,595	145,507	334,088	30%
GG6008	STM - 1516 Kilamey	282,000	262,293	19,707	93%
GG7000	STM - Storm Water - Private - MAIN	92,230	11,694	80,537	13%
GG7009	STM - 937 Ralph - Twiss/Clark	49,670	49,669	1	100%
GG7011	STM - King George Stream Restoration	40,000	-	40,000	-
GG7014	STM - Park James at Kirkfield	295,000	287,105	7,895	97%
GG7015	STM - Joel Ct at Bayoak Dr	222,000	53,170	168,830	24%
GG7016	STM - West High near Jodhpur	50,000	42,896	7,104	86%
GG7017	STM - Two Creeks Near Plaintree	75,000	51,328	23,673	68%
TOTAL GENERAL GOVERNMENT PROJECTS		43,030,514	30,000,333	13,030,181	70%

DOWNTOWN PROJECTS

Project Number	Project Name	Appropriations-to-Date	Expenditures-to-Date	Balance-to-Date	Percent Spent*
DT1000	DT - Downtown Available Funds	1,853,790	-	1,853,790	-
DT1108	DT - Business Improvement District Development Fees	700,399	188,326	512,073	27%
DT1117	DT - Mayton Inn Access Road	106,124	106,123	1	100%
DT1123	DT - Library Parking Facility	1,214,590	104,490	1,110,100	9%
DT1124	DT - 212 E Cedar Parking Lot	225,000	163,453	61,547	73%
DT1127	DT - Land - Downtown Park	5,000	1,299	3,701	26%
DT1128	DT - Midtown Square Sidewalk	250,000	-	250,000	-
DT1129	DT - Library Parking Structure	7,150,000	116,650	7,033,350	2%
DT1130	DT - 118, 120 & 124 Park Street Demolitions	45,000	43,550	1,450	97%
DT1131	DT-Development Opportunities	5,000,000	-	5,000,000	-
DT1132	DT- Library Lower Level	630,000	-	630,000	-
DT1133	DT-Downtown Facade Assistance	9,070	9,070	-	100%
DT1134	DT-Development Around Park	25,000	7,500	17,500	30%
TOTAL DOWNTOWN PROJECTS		17,213,973	740,461	16,473,512	4%

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2017

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
WATER PROJECTS		
WT1054	1,740,330	Holly Springs Road Water Line
WT1070	555,178	Water Resource Planning and Management
WT1116	1,074,562	MM - Utility Merger Study
WT1123	17,802,018	Aquastar
WT1128	1,050,973	Green Level Church Road Water Line - Phase I
WT1135	399,083	MM - Upgrade Water Lines
WT1138	396,000	Water Line Upgrades - FY 2007
WT1182	-	MM - Upgrade Water Lines - FY 2011
WT1205	-	Water System Pressure Monitoring
WT1217	831,599	Upgrade Water Lines - FY 2013
WT1220	258,961	Water Line Relocation NCDOT U 4716
WT1222	250,000	Extend Water Mains - FY 2014
WT1225	999,999	Cary/Apex Water Treatment Facility - Gas Chromotography Mass Spectrometer
WT1237	173,472	Water Line Oversizing s- FY 2016
WT1248	75,415	Bobcat - Replacement - #1447 - Water Truck, Dump, 10-11 Cubic Yards - #1977 - Replacement - Water
WT1253	40,398	
WT1262	123,049	Truck with Crane, 0-25 Feet - #2309 - Replacement - Water
WT1264	127,054	Valve Operating and Exercising Machine
WT1266	99,460	
	25,997,551	TOTAL CLOSED OR PENDING CLOSURE WATER PROJECTS
SEWER PROJECTS		
SW1102	1,546,583	North Cary Water Reclamation Facility - Odor Control
SW1124	7,047,226	WWRWMF - Effluent Pump Station
SW1125	2,153,106	WWRWMF - Project Management
SW1134	1,161,300	MM - Replacement/Rehabilitation Sewer Mains - FY 2007
SW1145	6,661,551	WWR-W Reedy Branch Gravity Sewer Interceptor
SW1147	17,145,781	WWR - Beaver Creek Force Main MM - Replacement/Rehabilitation of
SW1159	580,650	Existing Sewer Mains - FY 2008
SW1170	11,039,007	Swift Creek Pump Station Parallel Force Main
SW1178	1,375,753	WWRWMF - Beaver Creek Gravity Sewer
SW1179	3,404,354	WWRWMF - Beaver Creek Trunk Sewer
SW1180	38,524	WWRWMF - Holly Springs Effluent Force Main
SW1181	1,674,671	WWRWMF - Effluent Pipeline - Phase I
SW1212	1,233,540	Sewer System Repair/Rehabilitation - FY 2011
SW1224	73,431	Glenridge Pump Station Improvements Kensington Pump Station Connection to Downstream Gravity Sewer
SW1226	49,960	

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2017

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
SEWER PROJECTS - Continued		
SW1229	353,846	North Cary Water Reclamation Facility - Contingency Improvements
SW1234	175,000	Wastewater Collection System Odor Improvements - Town Wide
SW1237	237,635	Miscellaneous Pump Station Grinder Exchange/Rebuild Project
SW1268	175,000	Wastewater System Flow Study - FY 2014
SW1275	24,726	Reclaimed Water Line Oversizings - FY 2015
SW1282	178,990	SCWRF - Ultra Violet System Restoration and Power Surge
SW1289	231,940	North Cary Water Reclamation Facility - Administration Building Roof
SW1294	116,431	North Cary Water Reclamation Facility - Valve Replacements
SW1297	129,806	Reclaimed Water Line Oversizings - FY 2016
SW1298	-	Sanitary Sewer Oversizings - FY 2016
SW1304	80,937	Bobcat - Replacement - #2287 - Sewer FY 2017
SW1306	13,663	North Cary Water Reclamation Facility - HVAC Replacement
SW1307	87,135	North Cary Water Reclamation Facility - Mobile Engine Driven Pump Replacement
SW1316	123,049	Truck - Dump, 10-11 Cubic Yard - Replacement #1976 - Sewer
SW1317	296,310	Van with CCTV Replacement - #1685 - Sewer
SW1318	33,360	Western Wake Water Reclamation Facility - Process and Instrumentation Analyzers
	57,443,265	TOTAL CLOSED OR PENDING CLOSURE SEWER PROJECTS
TRANSPORTATION PROJECTS		
ST1073	14,554,888	Tryon and Piney Plains - Phase I
ST1092	9,199,622	Tryon Road Widening - Phase II (Piney Plains Rd to New Waverly Pl)
ST1209	660,249	Green Level Church Road Improvements - Austin Pond Road to Green Hope School Road
ST1214	376,843	Rail and Community Cohesion Impact Studies - I - NC54 and More/ II - Harrison Avenue Bridge/ West Raleigh-East Cary Rail Study
ST1222	1,255,000	Cary Transit (C-Tran) - FY 2013 - Cary Transit Land Acquisition - Transit Facility Site
ST1225	148,766	Cary Signal System - System Software Upgrade
ST1227	-	Bridge/Culvert Repairs - FY 2013
ST1232	2,211	Tryon Road/Regency Parkway Intersection Improvements
ST6020	31,281	STM - 111 Prince William Lane

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2017

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
TRANSPORTATION PROJECTS - Continued		
ST6028	20,014	STM - Creighton Court
	26,248,874	TOTAL CLOSED OR PENDING CLOSURE TRANSPORTATION PROJECTS
FIRE		
FR1027	4,981,074	Fire Station #2 - 601 E. Chatham Street
FR1043	608,600	Fire Pumper Replacement - #1706
FR1046	612,671	Fire Pumper Replacement - #1834
FR1049	582,976	Fire Pumper Replacement - #1958
FR1053	195,095	Thermal Imaging Camera Replacement
	6,980,416	TOTAL CLOSED OR PENDING CLOSURE FIRE PROJECTS
PARKS, RECREATION AND CULTURAL RESOURCES PROJECTS		
PR1057	4,606,029	White Oak Creek Greenway - Phase IV
PR1109	13,800,000	TCAP - Cary Elementary Renovation Project
PR1134	228,749	Hemlock Bluffs Renovation Project
PR1142	404,635	MacDonald Woods Renovation Project
PR1150	531,083	Annie Jones Greenway Renovation
PR1156	124,187	Greenway Connections to Morrisville Trail System
PR1169	151,577	Weldon Ridge Greenway
PR1172	334,167	Greenway Resurfacing Projects - FY 2013
PR1177	25,000	Community Garden
PR1195	372,102	Greenway Resurfacing Projects - FY 2014
PR1203	47,292	Carpenter Memorial Park
PR1205	2,203	Annie Jones Greenway Stream Bank Stabilization
PR1214	150,000	Public Art - DT - Downtown Park
PR1215	141,083	Crescent Green Bridge Replacement
PR1223	56,895	Playground Surface Repairs/Replacement - FY 2016
		Professional Level Sand Based Athletic
PR1224	243,861	Field Renovation - FY 2016
PR1225	130,496	Restroom Replacement - FY 2016
PR1226	22,799	Ritter Park Shade Structure
		Athletic Field Fencing Amenities Replacement (Windscreen,
PR1234	39,900	Safety Cap Padding and Netting) - FY 2017
PR1235	30,911	Athletic Field Fencing Repair/Replacement - FY 2017
PR1244	83,000	Playground Surface Repairs/Replacement - FY 2017
PR1249	45,024	Tennis Court Fencing Repair/Replacement - FY 2017
	21,570,993	TOTAL CLOSED OR PENDING CLOSURE PRCR PROJECTS

PROJECTS CLOSED OR PENDING CLOSURE AS OF JUNE 30, 2017

PROJECT #	ESTIMATED FINAL PROJECT COST	PROJECT DESCRIPTION
GENERAL GOVERNMENT PROJECTS		
GG1100	-	Retreat at Reedy Creek (Bower) 06-SB-016
GG1114	252,327	Equipment Wash Stations - WakeMed Soccer Park and USA Baseball Complex
GG1116	60,009	Fiber Optics Cable Extension to West Cary
GG1121	74,656	Application Software Replacement - ArcInfo - FY 2015
GG1136	200,005	Fire Station #4 - Roof Replacement
GG1145	196,951	Cary TV 11 Equipment Replacement
GG6007	641,954	STM - 322 Willow Street
GG7018	321,585	STM - 221 Trimble Avenue
	1,747,487	TOTAL CLOSED OR PENDING CLOSURE GENERAL GOVERNMENT PROJECTS
DOWNTOWN		
DT1119	329,393	DT - 122 E Chatham Upfits
	329,393	TOTAL CLOSED OR PENDING CLOSURE DOWNTOWN PROJECTS
	140,317,979	GRAND TOTAL - CLOSED OR PENDING CLOSURE PROJECTS



FISCAL YEAR 2018 UTILITY CAPITAL IMPROVEMENTS

WATER CAPITAL IMPROVEMENTS FUND

A.	150,000	CAWTF - Filter Pipe Gallery Piping Removal
B.	175,000	CAWTF - Laboratory Information Management System
C.	500,000	CAWTF - Process Conversion to Ozone/Biofiltration
D.	150,000	CAWTF - Residuals Transfer Pump Replacements
E.	720,000	CAWTF - Surge Tanks
F.	400,000	CAWTF - Water System Radio Software and Antennas
G.	600,000	Elevated Water Storage Tank Repainting - Carpenter Tank
H.	302,447	Extend Water Mains
I.	300,000	Harrison Elevated Water Tank Renovation
J.	200,000	Heavy Equipment Replacement - Water
K.	200,000	Infrastructure GIS Asset Data - Water
L.	1,200,000	Jenks-Carpenter/Holt Road Water Line Reinforcement
M.	40,000	Jordan Lake Partnership
N.	750,000	Kilmayne Water Storage Tank
O.	1,590,000	Maynard Road Water Line Reinforcement - Southeast
P.	520,000	Maynard Road Water Line Reinforcement - Southwest - Phase II
Q.	350,000	Morrisville Parkway Water Line Connections
R.	350,000	NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation
S.	100,000	NCDOT P-5201 Morrisville Parkway Railroad Grade Separation

FISCAL YEAR 2018 UTILITY CAPITAL IMPROVEMENTS

WATER CAPITAL IMPROVEMENTS FUND - Continued

T.	225,000	Plumtree Tank Modifications and Tank Repainting
U.	220,000	Tryon Road Water Line Upsizing
V.	5,000,000	Upgrade Water Lines
W.	160,000	Water Line Oversizings
X.	50,000	Water Main Condition Assessment
Y.	150,000	Water Storage Tank Repainting - Old Apex
Z.	150,000	Water System - Air Release Valve Replacements
AA.	175,000	Water System - Critical Water Line Locating and Testing
AB.	125,000	Water System - Valve Replacements
AC.	350,000	Water System Master Plan
AD.	950,000	White Oak Church Road Water Line
	16,152,447	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2018 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Filter Pipe Gallery Piping Removal

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

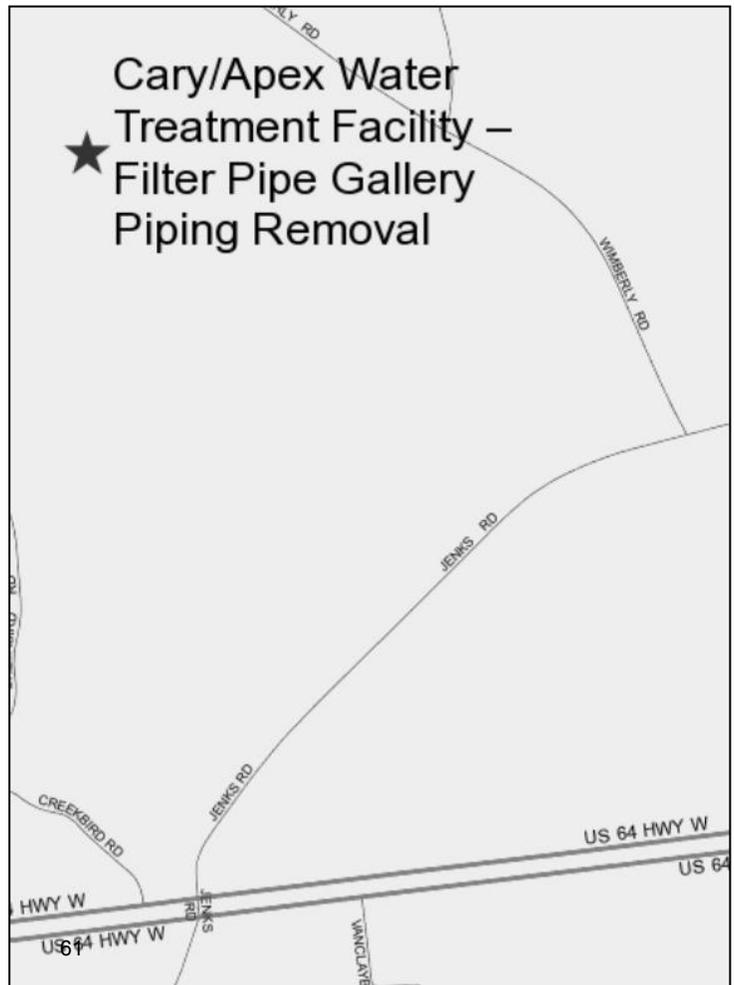
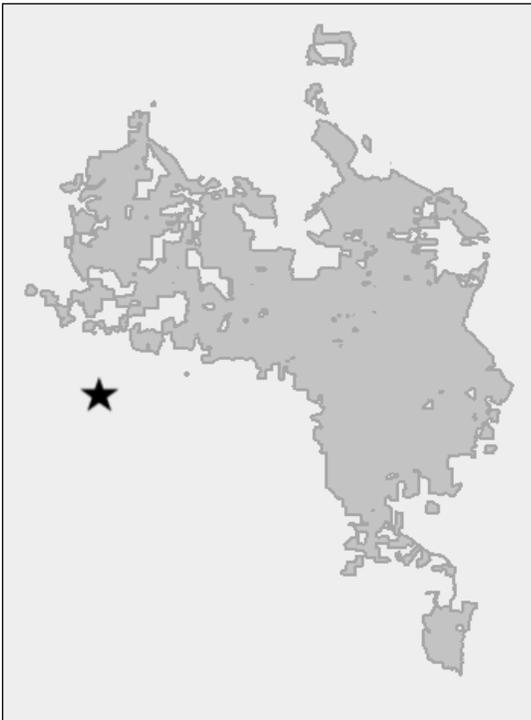
This project provides for the removal and disposal of abandoned large piping, valves and appurtenances at the Cary/Apex Water Treatment Facility. Floor grating installation to cover the old filter pipe gallery is also included.

The \$150,000 FY 2018 appropriation fully funds this project. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The Cary/Apex Water Treatment Facility's filter discharge piping has been reconfigured from its original state. Original filter piping, valve bodies, and associated appurtenances currently remain in their original place in the facility's filter pipe gallery and obstruct work spaces in the lower gallery area. Removing the abandoned piping will provide better access to the lower piping gallery.

PROJECT LOCATION:



B. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Laboratory Information Management System

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$175,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

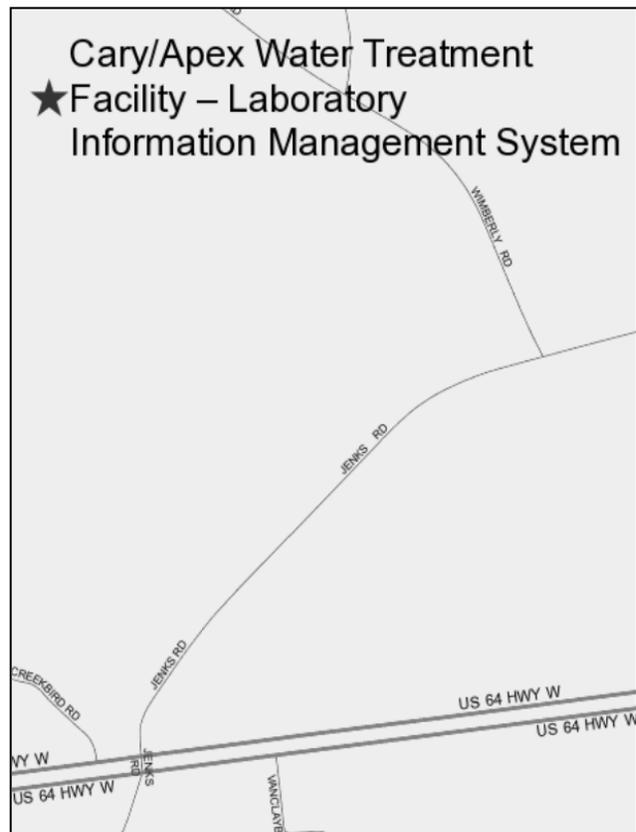
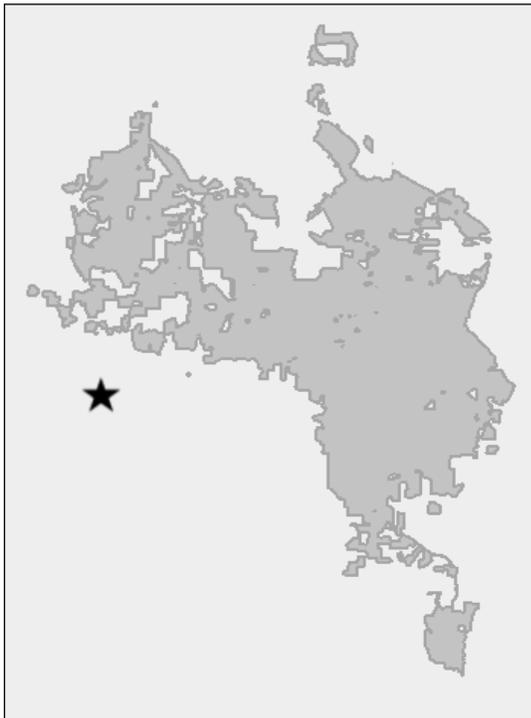
The Cary/Apex Water Treatment Facility Laboratory Information System (LIMS) project provides for the implementation of a laboratory analytical and regulatory information management system. The project includes software procurement, hardware installation, system setup and staff training.

The \$175,000 FY 2018 appropriation fully funds this project. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The Cary/Apex Water Treatment Facility's laboratory provides process control and regulatory compliance monitoring analyses for both the water treatment process and the water distribution system operations for Cary and Apex. Each year, the lab analyzes over 55,000 water samples and coordinates with commercial labs for the analysis of an additional 600 - 700 samples requiring more complex tests not performed in-house. A substantial amount of data is generated by the laboratory. This data is currently managed by lab staff utilizing spreadsheets and manual data entry. A Laboratory Information Management System (LIMS) automates data management and integrates laboratory processes such as sample login/tracking, bar coding, scheduling, analytical data and result database entry, electronic data transfer, resource management, chemical inventory, customer relationship management, regulatory reporting and time tracking.

PROJECT LOCATION:



C. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Process Conversion to Ozone/Biofiltration

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

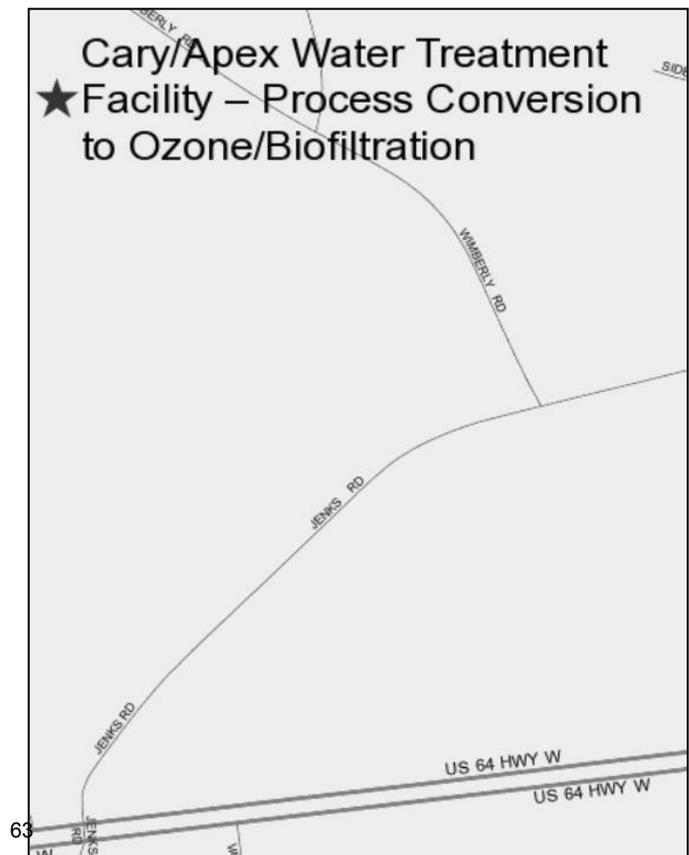
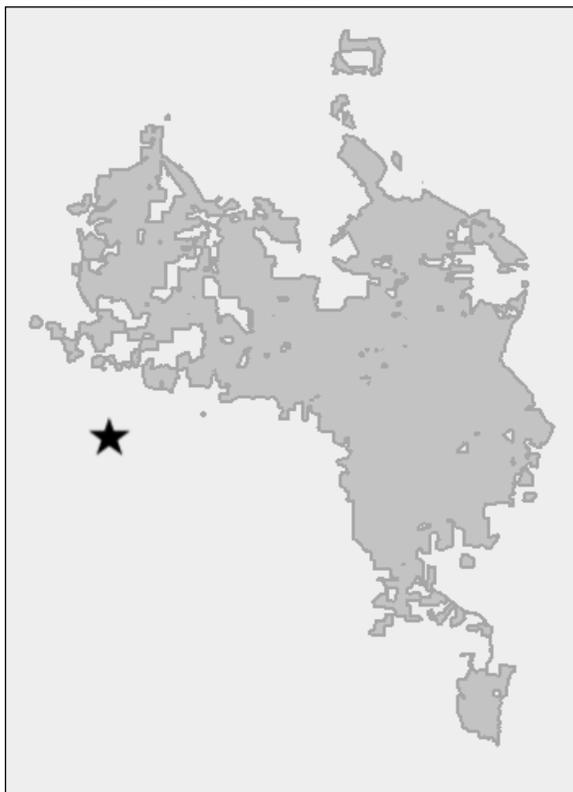
This project provides for the conversion of the water treatment process at the Cary/Apex Water Treatment Facility (CAWTF) to an ozone/biofiltration process that utilizes biologically active filters in combination with the plant's ozone system for advanced treatment of the Town's drinking water. This project will provide significant process enhancements and capabilities needed to address source water quality challenges and meet future anticipated drinking water regulations.

Total project cost is estimated at \$4,500,000. The \$500,000 FY 2018 appropriation supports system design, while an additional \$4,000,000 funding need in FY 2019 would address construction. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

Biofiltration will be incorporated by converting the plant's conventional dual media filters comprised of sand and anthracite to biologically active dual media filters using sand and granular activated carbon. Biofiltration has been proven to provide improved removal of certain inorganics, organics and trace organics in the drinking water treatment process. Ozone/biofiltration is also known for improving finished drinking water stability by providing better removal of taste and odor from source waters, reducing microbiological re-growth potential in the distribution system, reducing corrosion potential, reducing disinfection by-product precursor levels and providing improved chlorine and chloramine residual maintenance in the distribution system.

PROJECT LOCATION:



D. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Residuals Transfer Pump Replacements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

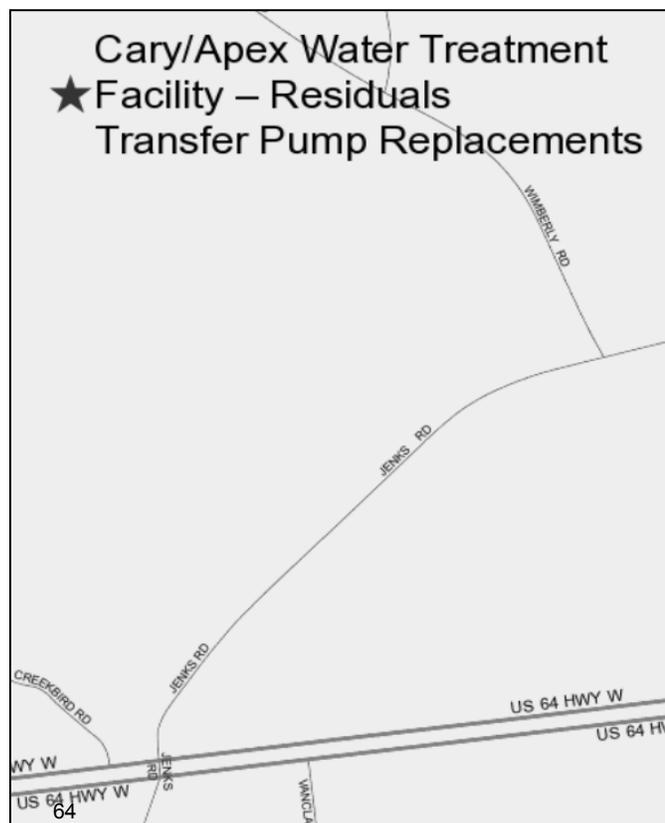
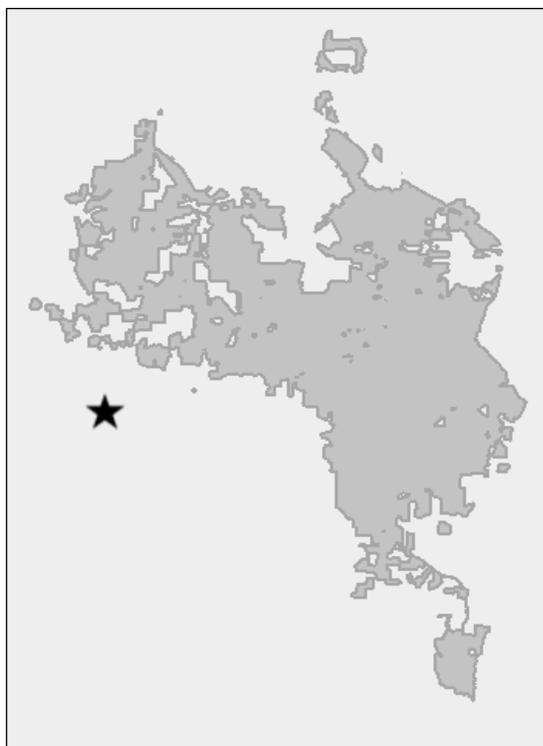
This project provides for the replacement of current residuals transfer pumps, which transfer residuals from thickening and holding basins to the dewatering facility, with larger capacity units to better serve the upgraded centrifuge being installed via the facility's Phase III expansion project.

Total project cost is estimated at \$400,000. The \$250,000 appropriation to date supports initial work associated with the replacement of the two existing residuals transfer pumps with larger capacity units. The \$150,000 FY 2018 appropriation provides for project completion. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The Cary/Apex Water Treatment Plant utilizes centrifuges to dewater liquid plant waste residuals. The dewatered residual cake is disposed of by transportation to a local commercial compost facility. Existing transfer pumps have a conveyance capacity of 300 gallons per minute (gpm) each. Each pump provides a firm pumping capacity for operation of both residuals centrifuges with a second pump for redundancy. Additional centrifuge capacity requires that residual transfer conveyance be increased to support operation of the larger centrifuges. Conveyance capacity needs to be increased to 500-600 gpm firm capacity with one pump operating and a redundant pump to ensure adequate transfer capacity for operating the dewatering facility after the Phase III Expansion is complete.

PROJECT LOCATION:



E. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Surge Tanks

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$720,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

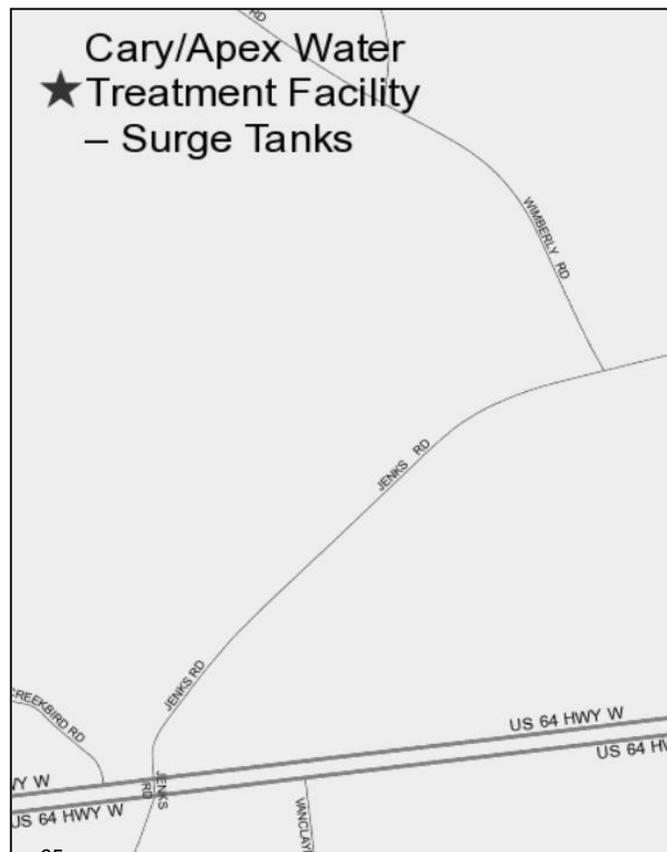
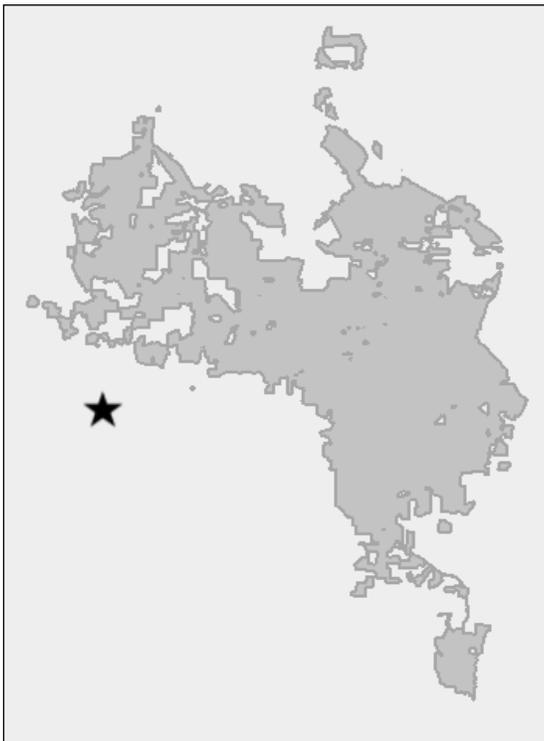
This project provides for the construction of two additional finished water surge tanks at the Cary/Apex Water Treatment Facility as well as restoration/modification to the existing on site tank. The design work associated with all three tanks was completed as part of the recent facility expansion.

The \$720,000 FY 2018 appropriation fully funds this project. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

In the event of a sudden power loss, the facility's pumps could experience an instantaneous pressure drop. Surge tanks help prevent the intrusion of contaminants into the system, or even water evaporization, which could cause a severe pressure spike and the potential for catastrophic pipeline damage. One of the new surge tanks will serve the existing 42-inch finished water pipeline while the other will be dedicated to the existing 30-inch pipeline. The facility's existing surge tank will be refurbished and serve the Town's western pressure zone.

PROJECT LOCATION:



F. WATER

PROJECT TITLE: Cary/Apex Water Treatment Facility – Water System Radio Software and Antennas

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$400,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

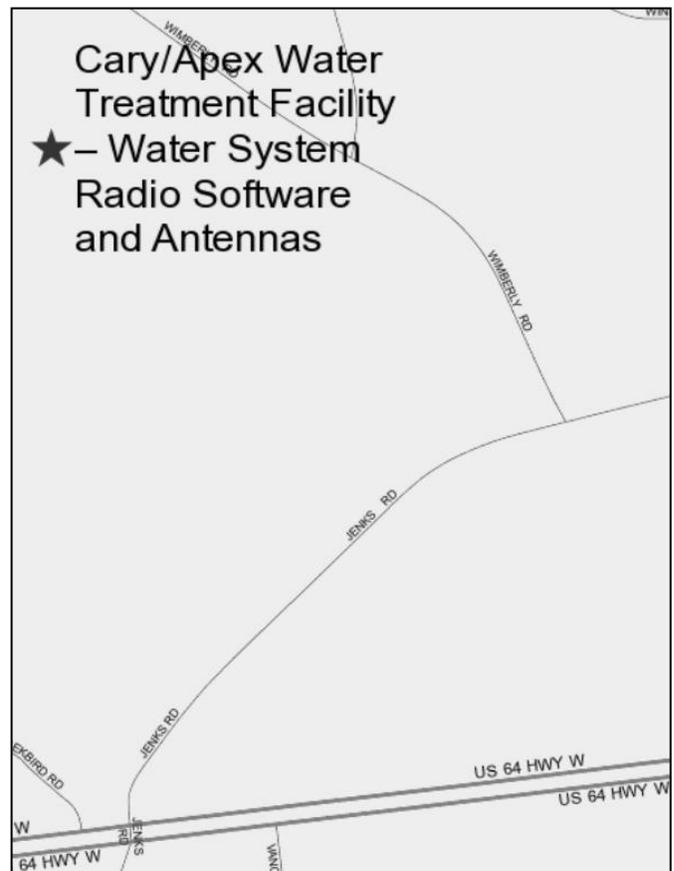
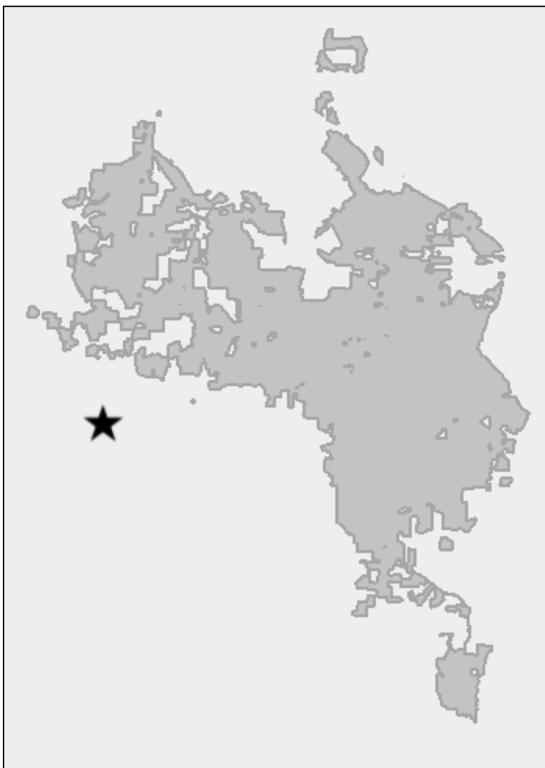
This project provides funding to install necessary infrastructure upgrades to the water distribution system's existing radio system. Elements such as new antennas at the Cary/Apex Water Treatment Facility, upgrades to antennas at existing sites and software are all included within this project.

The \$400,000 FY 2018 appropriation fully funds this project. As with all Cary/Apex Water Treatment Facility projects, the Town of Apex is responsible for 23% of the project cost while the Town of Cary addresses the remaining 77%.

PROJECT JUSTIFICATION:

The existing radio system at this facility utilizes outdated equipment that is often unable to communicate with all areas of the water distribution system. The improvements provided by this project will correct the communication issues between sites.

PROJECT LOCATION:



G. WATER

PROJECT TITLE: Elevated Water Storage Tank Repainting – Carpenter Tank

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

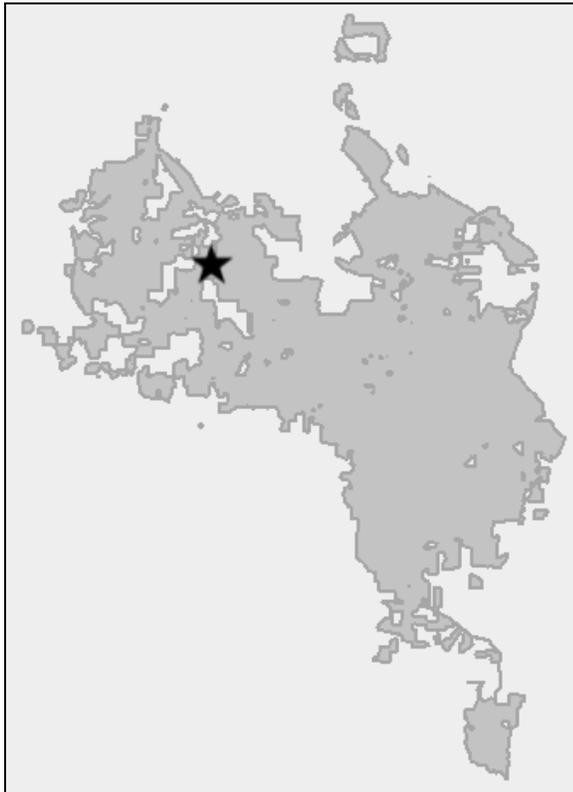
PROJECT DESCRIPTION:

This project provides for the cleaning, repair, repainting and application of protective coatings to the Carpenter elevated water storage tank. Total project cost is estimated to be \$750,000. The \$150,000 appropriated to date funds a condition assessment to determine which sections of the tank require complete restoration. The \$600,000 FY 2018 appropriation provides for the completion of all restoration and repainting.

PROJECT JUSTIFICATION:

Town staff and condition assessment experts regularly monitor tank condition and general repair needs. Repainting projects are developed based on the appearance of rust, corrosion and general deterioration of a tank's protective coatings. The Carpenter tank was constructed in 2002 and has not yet been repainted. Tank restorations and repaintings typically last for fifteen years.

PROJECT LOCATION:



H. WATER

PROJECT TITLE: Extend Water Mains

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$302,447

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

As water lines are constructed by development, gaps may remain between these new lines and existing portions of the system that were constructed by development or prior capital projects. FY 2018 funding will be used to construct missing links in the water network throughout the utility service area.

PROJECT JUSTIFICATION:

This project enhances the efficient operation of the water system and provides system redundancy to minimize the need to discontinue water supply to areas during water line maintenance.

PROJECT LOCATION:

This project will occur in various locations within the Town's water line distribution system as identified by Utilities and Water Resources staff.

I. WATER

PROJECT TITLE: Harrison Elevated Water Tank Renovation

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the interior and exterior renovation of the Harrison Avenue water tank. Total project cost is estimated at \$1,100,000. Appropriations to date of \$800,000 fund design, inspection and replacement of deteriorating structural components and renovation/repainting of all interior protective coatings. The \$300,000 FY 2018 appropriation provides for exterior coating replacement.

PROJECT JUSTIFICATION:

The Harrison Avenue elevated water tank was placed in service during 1974. Interior and exterior renovation is needed to protect the entirety of the tank from corrosion.

PROJECT LOCATION:



J. WATER

[Back to Table of Contents](#)
[Back to Water Projects](#)

PROJECT TITLE: Heavy Equipment Replacement - Water

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a "pay-as-you-go" funding strategy that annually sets aside funding necessary for the replacement of heavy equipment. Replacements are identified according to factors such as schedule, useful life expectancy, repair history and condition review.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff evaluates existing heavy equipment annually and recommends replacement for equipment that has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This project is not affiliated with a specific location.

K. WATER

PROJECT TITLE: Infrastructure GIS Asset Data - Water

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the refinement of buried water infrastructure GIS asset information once it is migrated from MapInfo to ArcGIS. The \$200,000 FY 2018 appropriation fully funds the purchase and implementation of this software.

PROJECT JUSTIFICATION:

In order to facilitate implementation of an analytical asset management approach, additional effort is necessary to enhance the quality of key information fields, such as age, material and diameter, for pipes and appurtenances. This software product will enhance data-driven prioritization processes to maximize asset life, maintain a high level of service, and minimize customer risk. A robust asset registry and software product that prioritizes time and resources supports accurate and cost effective decision making based on sound underlying data.

PROJECT LOCATION:

This project is not affiliated with a specific location.

L. WATER

PROJECT TITLE: Jenks-Carpenter/Holt Road Water Line Reinforcement

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

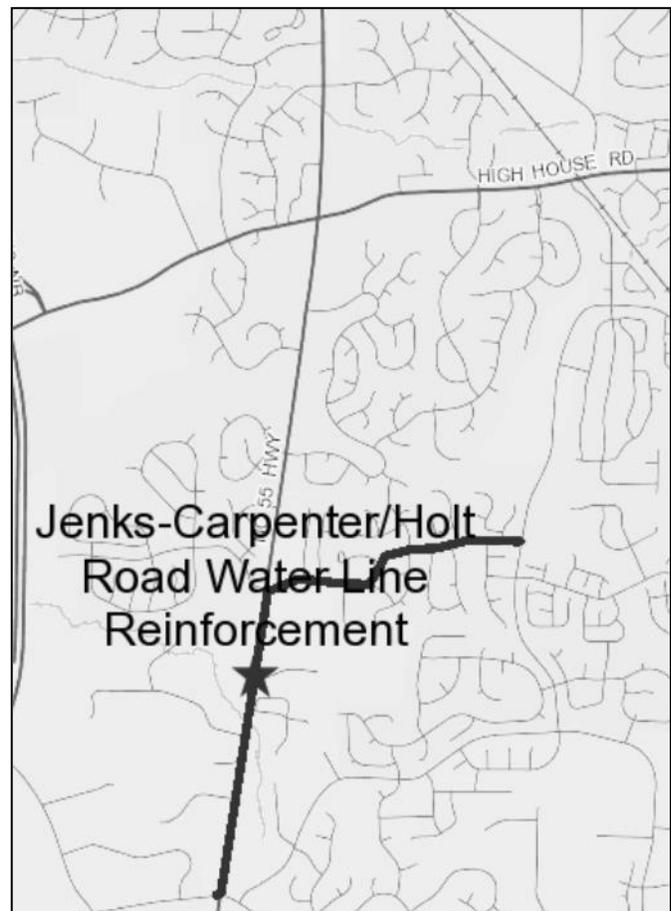
This project provides for the design and construction of 7,710 linear feet of 30-inch main parallel to the existing 36-inch main along Jenks-Carpenter Road. This pipeline was upsized from a 24-inch line to a 30-inch line per results of a study associated with the development of the western Cary water storage tank project.

Total project cost is estimated at \$4,253,000. \$3,053,000 has been appropriated to date for design and construction of this water line. The \$1,200,000 FY 2018 appropriation allows the pipe size to be increased in order to better support the western Cary water storage tank.

PROJECT JUSTIFICATION:

This project results in increased water supply to the southern portion of the utility system's central pressure zone.

PROJECT LOCATION:



M. WATER

PROJECT TITLE: Jordan Lake Partnership

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$40,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports the Town of Cary's participation in regional planning for expanded use of Jordan Lake as a water supply. The \$40,000 FY 2018 appropriation provides for the Town's participation in partnership planning efforts and projects which include a more expansive review of future water supply options to benefit the entire region. This funding may also be directed to supplemental tasks that may be identified by the partnership as a whole.

PROJECT JUSTIFICATION:

The Jordan Lake Regional Water Supply Partnership's Memorandum of Understanding (MOU) establishes Durham as the lead agency for the project's general activities and allows for Supplemental Articles to the MOU to define participation by some or all of the partners in additional projects. The Jordan Lake Partnership was created by thirteen Triangle-region jurisdictions and water systems to jointly plan for expanded use of Jordan Lake as a water supply. The partners evaluate water demand and supply on a regional basis; some partners will coordinate Jordan Lake water allocation requests from the State of North Carolina, and some partners will share in the cost and development of facilities to access Jordan Lake on the west side.

PROJECT LOCATION:



N. WATER

PROJECT TITLE: Kilmayne Water Storage Tank

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$750,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$19,845
<hr/>	
Total	\$19,845

PROJECT DESCRIPTION:

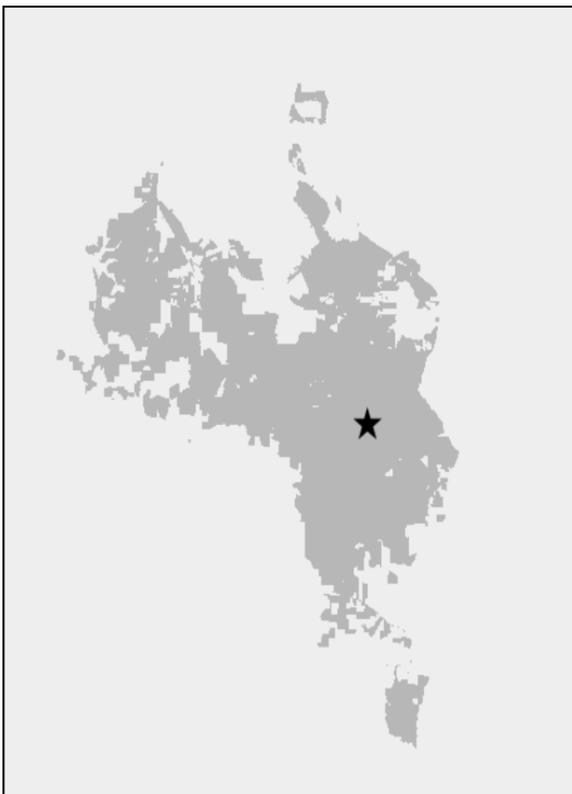
This project provides for design and construction of a new, two million gallon water storage tank on Kilmayne Drive. The project also funds the rehabilitation and restoration of the existing Maynard Tank located at Maynard Road and Walnut Street.

Project cost is estimated at \$7,750,000. Appropriations through FY 2017 total \$7,000,000 for site acquisition, design and construction. The \$750,000 appropriated in FY 2018 provides for the restoration and rehabilitation of the Maynard Tank.

PROJECT JUSTIFICATION:

The additional storage capacity provided by the new Kilmayne Tank will enhance the utility system’s ability to meet demand requirements for water pressure purposes, fire-fighting need and periods of peak water usage.

PROJECT LOCATION:



O. WATER

PROJECT TITLE: Maynard Road Water Line Reinforcement - Southeast

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,590,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

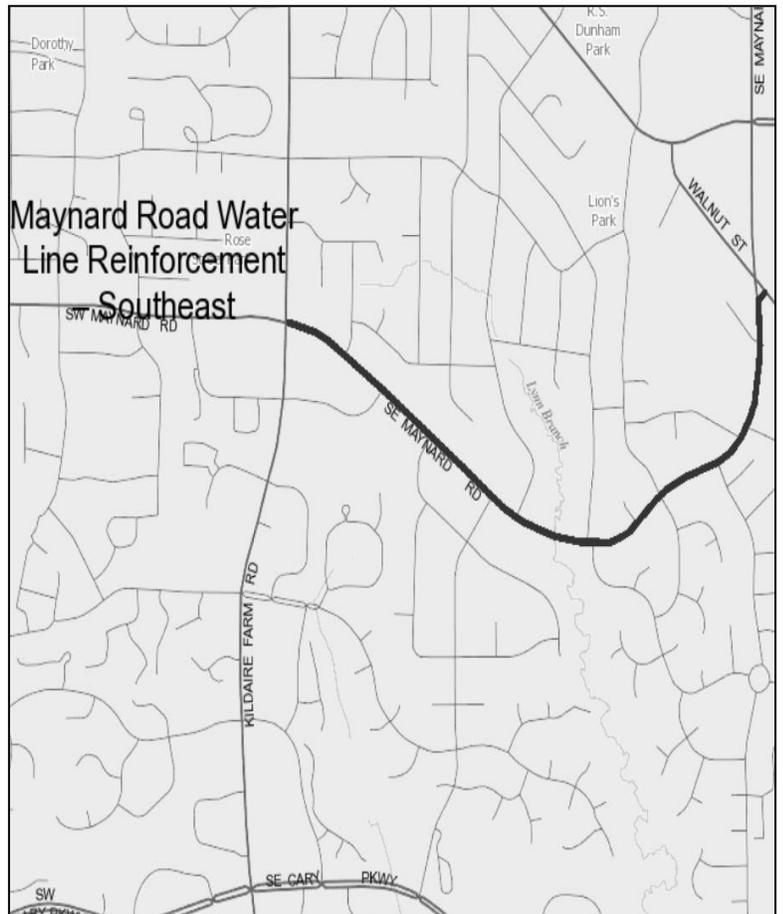
This project provides for the design and construction of 7,300 linear feet of 20-inch water line along SE Maynard Road from Kildaire Farm Road to Walnut Street to reinforce the existing water line at that location.

The \$1,590,000 FY 2018 appropriation fully funds this project.

PROJECT JUSTIFICATION:

This project will improve service in the Town's existing utility service area and is also an important component of addressing higher water demands created by new development elsewhere in the system.

PROJECT LOCATION:



P. WATER

PROJECT TITLE: Maynard Road Water Line Reinforcement – Southwest – Phase II

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$520,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the design and construction of 2,950 linear feet of 12-inch water line along SW Maynard Road from High House Road to Old Apex Road to reinforce the existing water line at that location.

The \$520,000 FY 2018 appropriation fully funds this project.

PROJECT JUSTIFICATION:

This project will improve service in the Town’s existing utility service area and is also an important component of addressing higher water demands created by new development elsewhere in the system.

PROJECT LOCATION:



Q. WATER

PROJECT TITLE: Morrisville Parkway Water Line Connections

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$350,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

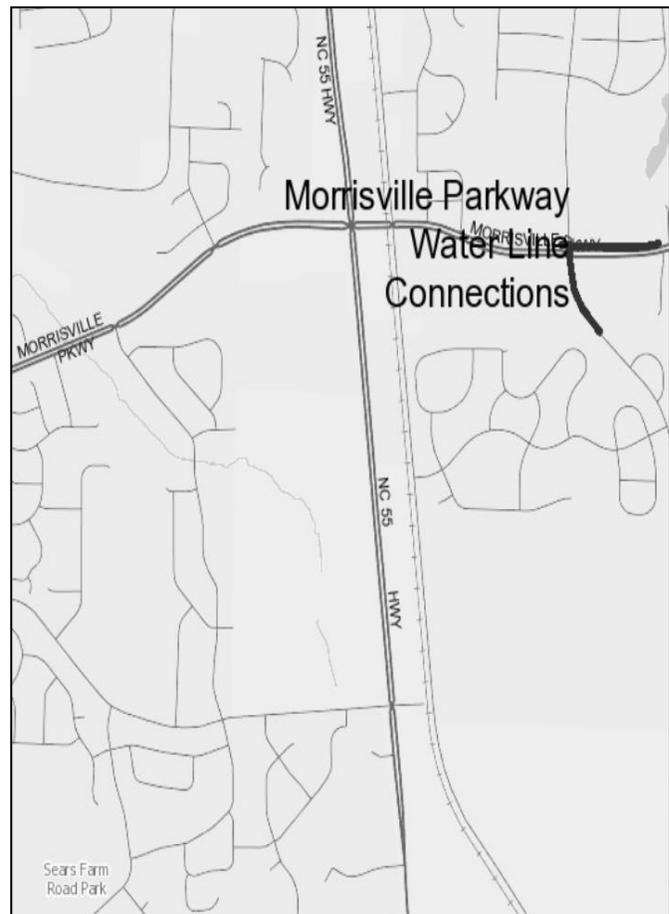
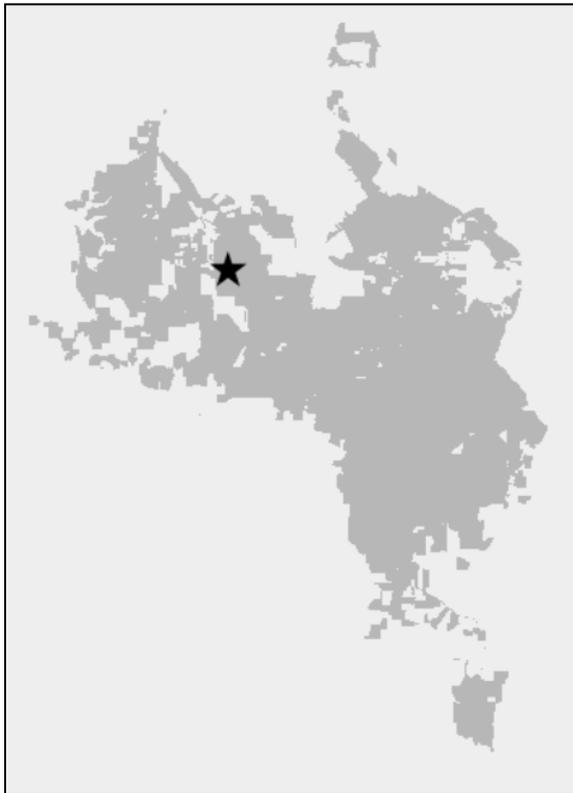
This project provides for the design and construction of 2,050 linear feet of 12-inch and 16-inch water main along Morrisville Parkway and Louis Stephens Drive to connect dead-end lines.

The \$350,000 FY 2018 appropriation fully funds this project.

PROJECT JUSTIFICATION:

This project is growth-related and will increase the Town's utility service area while also providing a secondary feed and loop in this area.

PROJECT LOCATION:



R. WATER

PROJECT TITLE: NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$350,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

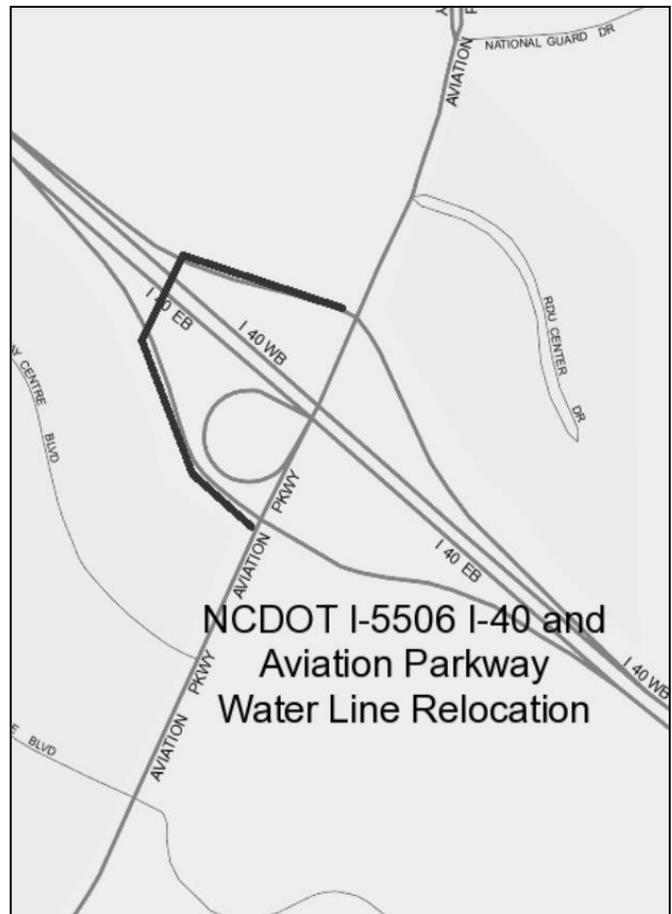
This project provides for the relocation, encasement and related modifications to an existing Town of Cary water line within the interchange area of I-40 and Aviation Parkway.

Staff estimates that the \$350,000 FY 2018 appropriation will fully fund this project; however, additional funding may be necessary once the full impacts of the NCDOT project are known.

PROJECT JUSTIFICATION:

This relocation is necessary to accommodate planned North Carolina Department of Transportation (NCDOT) improvements at this interchange.

PROJECT LOCATION:



S. WATER

PROJECT TITLE: NCDOT P-5201 Morrisville Parkway Railroad Grade Separation

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

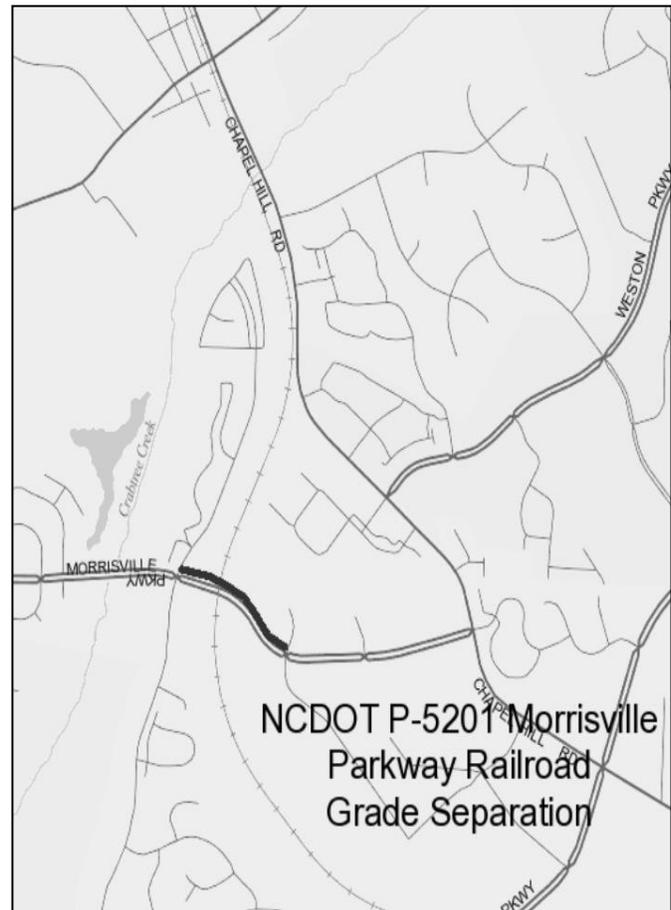
PROJECT DESCRIPTION:

This project provides for the relocation of an existing water line on Morrisville Parkway from Bristol Creek Drive to Crabtree Crossing. Staff estimates that the \$100,000 FY 2018 appropriation will fully fund this project; however, additional funding may be necessary once the full impacts of the NCDOT project are known.

PROJECT JUSTIFICATION:

This relocation is necessary to accommodate a North Carolina Department of Transportation (NCDOT) project which realigns this section of roadway. The water line is currently located under the existing rail line and must be relocated so that it is underneath the sidewalk on the north side of this segment of Morrisville Parkway.

PROJECT LOCATION:



T. WATER

PROJECT TITLE: Plumtree Tank Modifications and Repainting

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$225,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the design and construction of a booster pumping station at the Plumtree water tank located on Ten Ten Road behind Town of Cary Fire Station #6. Total project cost is estimated at \$2,275,000. \$2,050,000 has been appropriated through FY 2017 for design and construction of the tank modifications. The \$225,000 FY 2018 appropriation provides remaining funds needed for modifications and tank repainting.

PROJECT JUSTIFICATION:

The addition of a booster pumping station at the Plumtree tank will allow a portion of the current southern pressure zone to return to central pressure zone (CPZ) pressures and better facilitate the operation of storage facilities within the CPZ. The modifications will enhance the utility system's ability to meet demand requirements for fire-fighting needs and periods of peak water usage. Water age in the lower portions of the service area will also be reduced. This project is growth-related and is required to serve growth in the Town's utility service area.

PROJECT LOCATION:



U. WATER

PROJECT TITLE: Tryon Road Water Line Upsizing

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$220,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

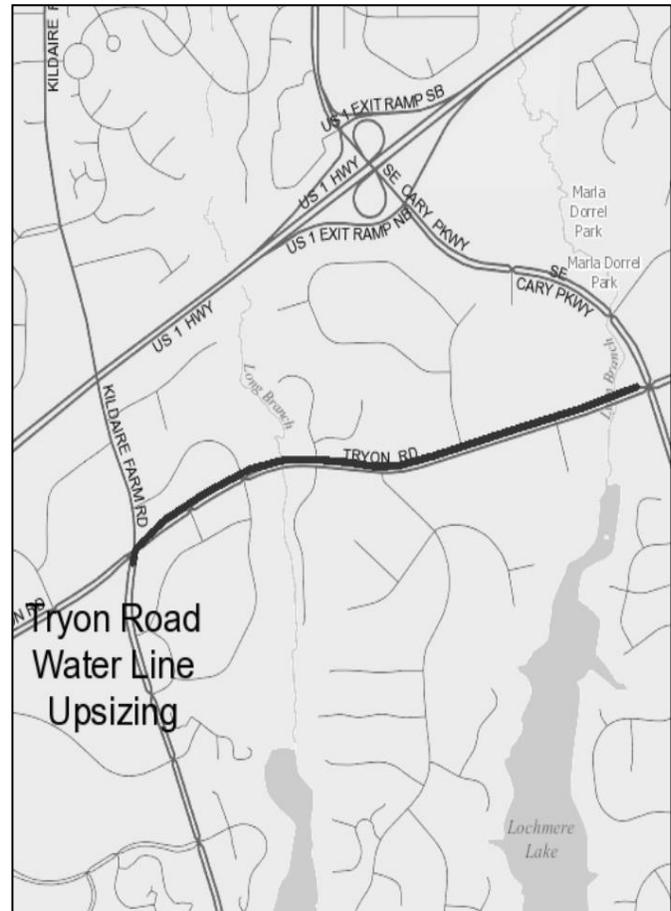
This project provides for the design and construction of 5,400 linear feet of a 16-inch water line to parallel an existing 8-inch water line along Tryon Road between Kildaire Farm Road and SE Cary Parkway.

Total project cost is estimated at \$1,220,000. The \$220,000 FY 2018 appropriation supports design while a \$1,000,000 funding need is identified in FY 2020 for construction.

PROJECT JUSTIFICATION:

The project provides increased hydraulic capacity and efficiency in this portion of the central pressure zone. Improving flows through this corridor will improve the operation of the Crossroads ground storage tank upon its completion which is estimated for winter 2021. This line will also provide redundancy of service in this area in the event of a line break or high fire-fighting demand.

PROJECT LOCATION:



V. WATER

PROJECT TITLE: Upgrade Water Lines

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$5,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for upgrades to existing small diameter or otherwise deficient lines within the Town's water line system. Utilities and Water Resources staffs jointly identify acute needs through field research study. Once these needs are addressed, this annual project will migrate to a program of proactive system management that systematically replaces and upgrades aging infrastructure before acute needs are able to fully develop.

PROJECT JUSTIFICATION:

This project is service related. It improves service by replacing older and small-sized lines which tend to require more frequent maintenance. Hydraulic capacity and efficiency will also increase within the upgraded portions of the water distribution system.

PROJECT LOCATION:

This project will occur in various locations within the Town's water line distribution system as identified by Utilities and Water Resources staff.

W. WATER

PROJECT TITLE: Water Line Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$160,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for reimbursements to developers for the cost of water lines installed to serve needs beyond those of their individual projects.

PROJECT JUSTIFICATION:

Current Town policy allows developers to be reimbursed for the cost difference between installing infrastructure that serves only their needs and installing infrastructure that meets the Town's need to serve areas outside of the development. Reimbursements to developers are made upon completion and acceptance of the oversized lines. The Water Line Oversizings capital project is growth-related and will increase the Town's utility service area.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

X. WATER

PROJECT TITLE: Water Main Condition Assessment

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Town of Cary operates and maintains over 960 miles of water mains of various sizes and types. This project funds systematic testing and evaluation of the Town's water mains.

PROJECT JUSTIFICATION:

A general condition assessment of these water mains with respect to their geographic location age, soil type and evaluation of their remaining service life will enable staff to plan for the systematic replacement/rehabilitation of water lines and utilize rehabilitation technologies prior to structure failure.

Historically, water main replacement or renewal has been based almost exclusively upon repair history alone. Unlike sewer mains, the condition of the Town's water lines cannot be readily observed by staff without begin taken out of service. New and emerging technologies in pipeline evaluation, condition assessment and water line renewal can provide staff a means of being more proactive in managing the Town's water system infrastructure.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

Y. WATER

PROJECT TITLE: Water Storage Tank Repainting – Old Apex

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

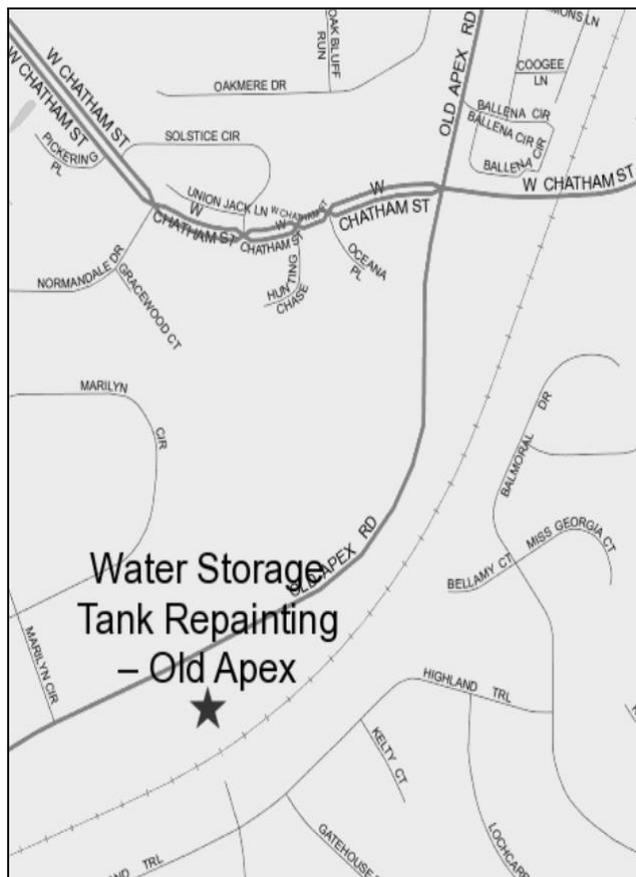
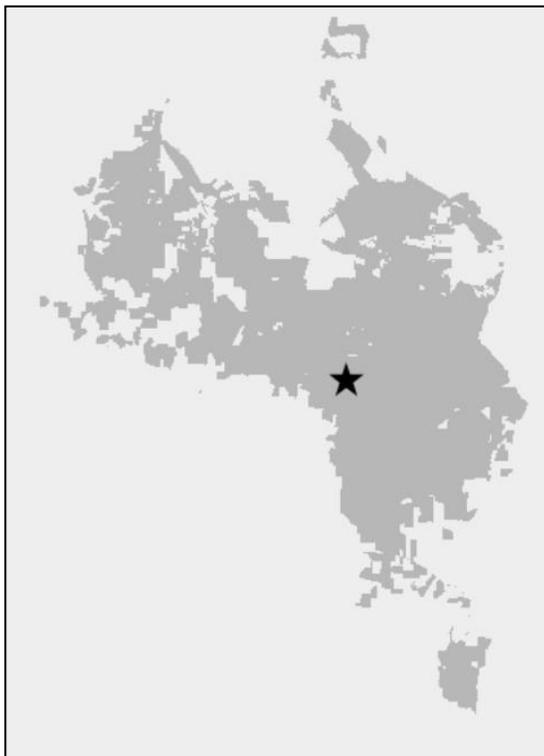
This project provides for painting, repair, cleaning, disinfection and protective coatings restoration for the Old Apex ground level water storage tank.

Total project cost is estimated at \$700,000. The \$150,000 FY 2018 appropriation supports a detailed condition assessment as well as the development of specifications for the proposed surface preparation and repainting. An additional \$550,000 funding need has been identified in FY 2019 to provide for repainting, cleaning and disinfection consistent with a full restoration of protective coatings for a minimum 15 years of continuous service.

PROJECT JUSTIFICATION:

The Old Apex Tank is a 3 million gallon ground level storage tank constructed in 2000 to serve Cary’s central pressure zone. Town staff and condition assessment experts regularly monitor tank conditions and general repair needs. Repainting projects are developed based on need related to rust, corrosion and a general deterioration of the tank protective coatings. Without high performing protective coatings, the structural framework and general appearance of the tank can be impacted over time by corrosion.

PROJECT LOCATION:



Z. WATER

PROJECT TITLE: Water System Air Release Valve Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for air release valve (ARV) testing, inspection and replacement throughout the water distribution system. Total project cost is estimated at \$750,000. Testing, inspection and replacement are phased over three years with appropriations to date of \$150,000 supporting the first phase. The \$150,000 FY 2018 appropriation provides for phase two while an additional \$150,000 appropriation in FY 2019 completes this round of replacements. The process begins again with \$150,000 appropriations in fiscal years 2025 and 2028.

PROJECT JUSTIFICATION:

Air release valves release air at higher elevations within the water system pipelines. Proper operation of air release valves reduces energy demand and helps prevent “water hammer” which can trigger water main breaks and water system leaks. This project focuses on replacing ARVs in areas with aging pipelines at greater risk of failure or consequence of failure.

PROJECT LOCATION:

This project will occur in various locations throughout the Town’s utility system as the need arises.

AA. WATER

PROJECT TITLE: Water System – Critical Water Line Locating and Testing

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$175,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for locating, identifying and testing key water pipeline infrastructure critical to overall water system operations. This project is recurring in nature with a \$175,000 funding need identified in each year of the FYs 2018 – 2028 CIB/P. This level of funding provides for location of 8 to 12 miles of line coverage per year.

PROJECT JUSTIFICATION:

The primary focus of this project is to locate water transmission lines 12-inches and larger, specific smaller diameter lines may also be included. Areas determined by Town staff as being in the greatest need of utility locating improvements and/or with water lines at greatest risk of failure would be located first.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

AB. WATER

PROJECT TITLE: Water System – Valve Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$125,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for replacement of aging valve installations within the water distribution system. The primary focus of this project is valve replacements on pipelines 12-inches or larger, although smaller sizes may also be included. This project is recurring in nature with a \$125,000 funding need identified in each year of the FYs 2018 – 2028 CIB/P.

PROJECT JUSTIFICATION:

The Town's water system includes more than 25,000 valves. As the system ages, proper valve operation and maintenance is essential in supporting aging pipeline renewal and replacement and for timely and responsive isolation of water main breaks.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

AC. WATER

PROJECT TITLE: Water System Master Plan

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$350,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for periodic updates to the Town's water distribution system master plan. The Town's most recent complete update is based upon 2010 system data. The \$350,000 FY 2018 appropriation fully funds one update. The next update is planned to occur in FY 2026.

PROJECT JUSTIFICATION:

Master planning is an important component of a well-managed water system as this process encourages efficient use of Town resources to provide infrastructure to support development within the utility service area.

PROJECT LOCATION:

There is no specific location tied to this water resources master planning capital project.

AD. WATER

PROJECT TITLE: White Oak Church Road Water Line

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$950,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

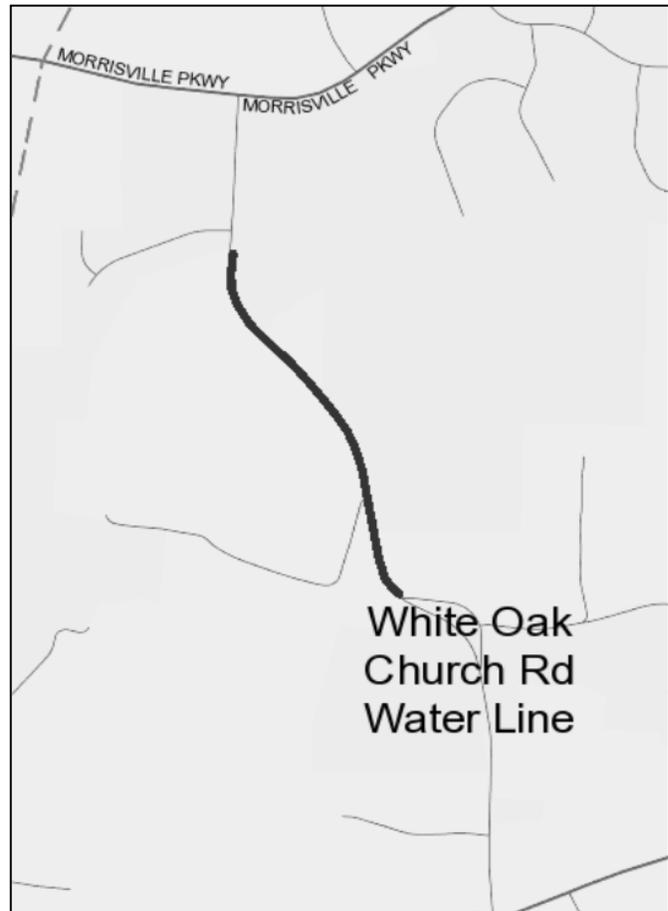
This project provides for the design and construction of 9,200 linear feet of 16-inch water main along White Oak Church Road from Green Level West Road to Yates Store Road.

Total project cost is estimated at \$2,362,500. The \$950,000 FY 2018 appropriation provides for design and construction of the first phase of work which will connect an existing line in this area that serves an elementary school to a proposed development in the southwestern quadrant of White Oak Church Road and Yates Store Road. An additional \$1,412,500 funding need noted in FY 2024 would provide design and construction of the second phase of this line which will extend the line north to Yates Store Road.

PROJECT JUSTIFICATION:

This project will provide a secondary feed and loop to this area while creating service redundancy in the event of line breaks or high fire-fighting demand.

PROJECT LOCATION:



FISCAL YEAR 2018 UTILITY CAPITAL IMPROVEMENTS

SEWER CAPITAL IMPROVEMENTS FUND

A.	448,200	Cleaning and Video Survey of Sewer Interceptors
B.	600,000	Heavy Equipment Replacement - Sewer
C.	200,000	I-40 Pump Station Improvements
D.	2,000,000	KCPS and MBRPS Force Main Parallel Along Green Level Church Road
E.	150,000	Miscellaneous Pump Station Grinder Exchange Rebuild/Replace
F.	150,000	NCWRF - Clarifier Equipment Repair and Replacement
G.	110,000	NCWRF - Fork Lift - New
H.	50,000	NCWRF - Improvements for Continuous Three Train Operation
I.	200,000	NCWRF - Mixer Replacements
J.	420,000	NCWRF - Partial and Full Diffused Air System
K.	167,475	Reclaimed Water Line Oversizings
L.	195,000	Sanitary Sewer Oversizings
M.	100,000	SCWRF - Aeration Basin and Air Handler Repair
N.	325,000	SCWRF - Aeration Basin Blower Replacements
O.	80,000	SCWRF - Aeration Basin Recycle Pump Replacements
P.	200,000	SCWRF - Clarifier Equipment Repair and Replacement
Q.	150,000	SCWRF - Peak Flow Management Study
R.	150,000	SCWRF - Gravity Belt Thickener Rebuild
S.	56,400	SCWRF - HVAC Replacement
T.	200,000	SCWRF - Variable Frequency Drive Replacement
U.	150,000	Sewer Flow Management Modeling Scenarios
V.	5,428,112	Sewer System Repair/Rehabilitation
W.	1,100,000	Upper Crabtree Creek Pump Station and Force Main
X.	250,000	Wastewater Collection System Master Plan Update
Y.	500,000	Winding Pine Regional Pump Station, Gravity Sewer and Force Main
	<u>13,380,187</u>	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2018 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. SEWER

PROJECT TITLE: Cleaning and Video Survey of Sewer Interceptors

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$448,200

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This is a recurring initiative to provide regular maintenance and video inspection of sewer lines 15-inches and larger in diameter. Cleaning and inspection of sewer lines is part of the ongoing maintenance program for the Town's wastewater collection system. This work is routinely performed by the Town's wastewater collection crews on sewer lines 12-inches and smaller in size but would require a significant expansion in staffing and equipment for larger sewers. This project provides for this work to be performed on a contract basis with firms having the equipment and expertise to perform this work effectively.

PROJECT JUSTIFICATION:

Cleaning sewer lines removes debris and sediment that restricts flow and could ultimately result in sanitary sewer overflows. Video inspection provides important information regarding the condition of sewer lines.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

B. SEWER

PROJECT TITLE: Heavy Equipment Replacement - Sewer

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a "pay-as-you-go" funding strategy that annually sets aside funding necessary for the replacement of heavy equipment. Replacements are identified according to factors such as schedule, useful life expectancy, repair history and condition review.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff evaluates existing heavy equipment annually and recommends replacement for equipment that has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This equipment will be utilized throughout the Town as the need arises.

C. SEWER

PROJECT TITLE: I-40 Pump Station Improvements

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

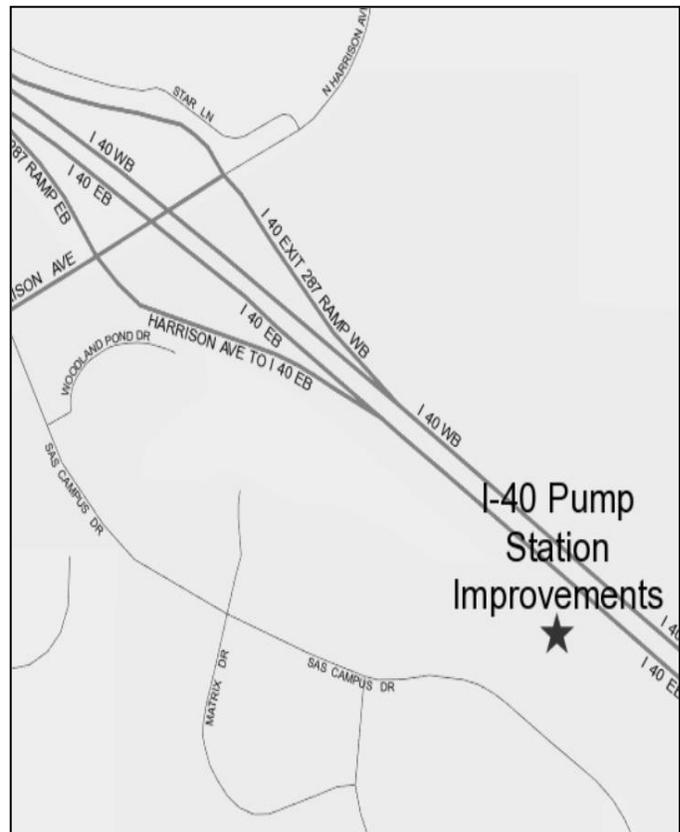
PROJECT DESCRIPTION:

This project provides for equipment upgrades at the I-40 wastewater pumping station. The \$200,000 FY 2018 appropriation provides for a comprehensive upgrade of major mechanical and electrical equipment as well as piping repair needs.

PROJECT JUSTIFICATION:

This pump station has been in continuous operation for approximately 27 years. Most of its equipment is original to the pump station with the exception of the implementation of small projects over the years making minor improvements. These upgrades will bring this station's operations up to date with new equipment and controls which in turn, will reduce the potential for future mechanical and electrical failures.

PROJECT LOCATION:



D. SEWER

PROJECT TITLE: Kit Creek Pump Station (KCPS) and Morris Branch Regional Pump Station (MBRPS) Force Main Parallel Along Green Level Church Road

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$2,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

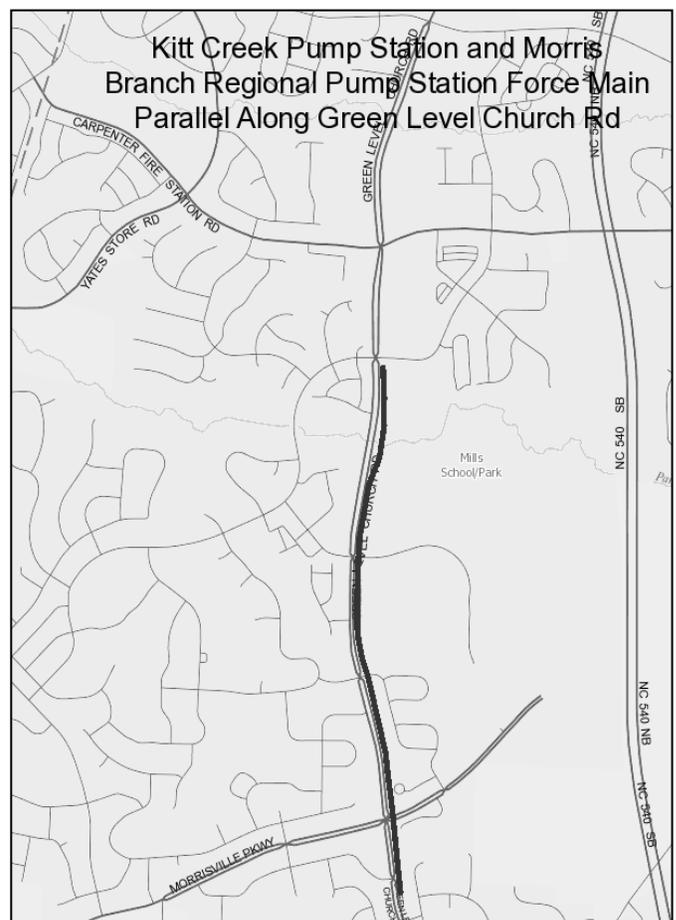
PROJECT DESCRIPTION:

This project provides for the design and construction of a 24-inch force main running parallel to an existing 24-inch force main located along Green Level Church Road between Miller Crest Lane and Cary Glen Boulevard. The \$2,000,000 FY 2018 appropriation fully funds this project.

PROJECT JUSTIFICATION:

This parallel force main is tied to the Kit Creek (KCPS) and Morris Branch regional (MBRPS) pump stations and is required to transfer additional sewer flow anticipated in this developing area.

PROJECT LOCATION:



E. SEWER

PROJECT TITLE: Miscellaneous Pump Station Grinder Exchange Rebuild/Replace

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project makes funding available for the replacement of pump station influent grinders in advance of potential failure due to damage from extensive continual use. Staff estimates that up to five of the Town's twenty-one pump stations with grinder assemblies would benefit from replacement or rebuild of the grinders within the next year. The \$150,000 FY 2018 appropriation supports the exchange or rebuild of the most deteriorated of these five grinder assemblies in the next year.

PROJECT JUSTIFICATION:

Influent grinders protect pumps by grinding down debris within the influent wastewater stream before it can be drawn into the pump where it could cause damage. Grinders are in continuous use and constantly sustain wear to their blades, shafts and bearings. The grinders identified for review and some degree of replacement have been in perpetual use since 2002. The typical useful life for equipment of this nature is ten years with intensive maintenance and monitoring.

PROJECT LOCATION:

This project will occur at various points within the Town's utility system as the need arises.

F. SEWER

PROJECT TITLE: NCWRF - Clarifier Equipment Repair and Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

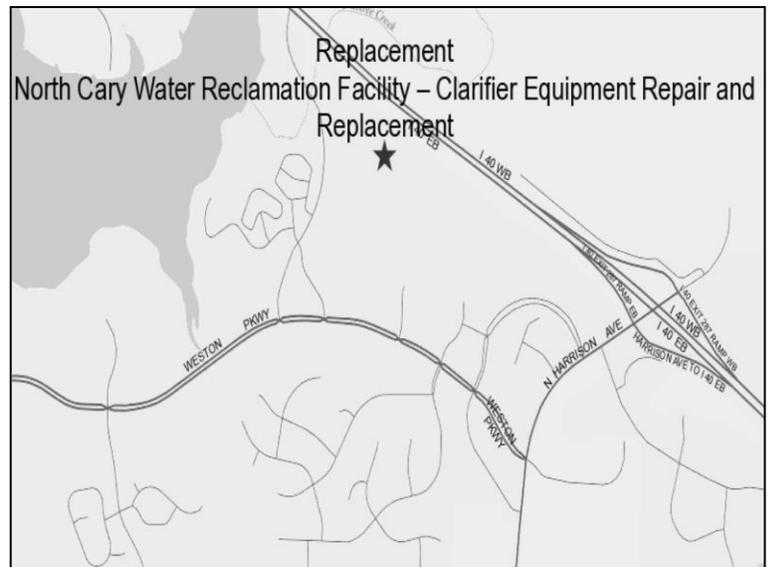
The North Cary Water Reclamation Facility consists of three biological nutrient removal (BNR) basins and three secondary clarifiers. The BNR basins provide conditions where the bacterial population consumes the available food and nutrients (waste water) prior to gravity separation. Flow from the BNR process reactors moves through pipes into three 130-foot diameter clarifiers. This is where the bacterial population (bio-mass) separates from the clear water. The primary purpose of the clarifiers is to separate the bio-mass and return it to the BNR tanks while allowing clear water to pass over fixed weirs. This project provides for the repair and replacement of the clarifier equipment and related lines at this facility.

Project cost is estimated at \$350,000. The \$200,000 appropriated to date, combined with the \$150,000 FY 2018 appropriation, supports the repair of all clarifiers and the replacement of all associated lines.

PROJECT JUSTIFICATION:

The mechanical parts of the clarifiers were last rebuilt in 2002. This project provides phased funding for the predictive maintenance required on the clarifiers and the replacement of galvanized lines on the associated BNR trains.

PROJECT LOCATION:



G. SEWER

PROJECT TITLE: NCWRF – Fork Lift - New

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$110,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the purchase of a new forklift to assist in equipment maintenance activities at the North Cary Water Reclamation Facility (NCWRF). The \$110,000 FY 2018 appropriation fully funds the purchase of one forklift for the NCWRF.

PROJECT JUSTIFICATION:

The majority of the mechanical equipment in place at the NCWRF is elevated and requires a forklift to move machinery, parts, and other components up and over tank walls with some regularity. The facility has rented fork lifts for such maintenance in the past, but analysis has proven a cost savings if the facility had its own dedicated unit.

PROJECT LOCATION:



H. SEWER

PROJECT TITLE: NCWRF – Improvements for Three Train Continuous Operation

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

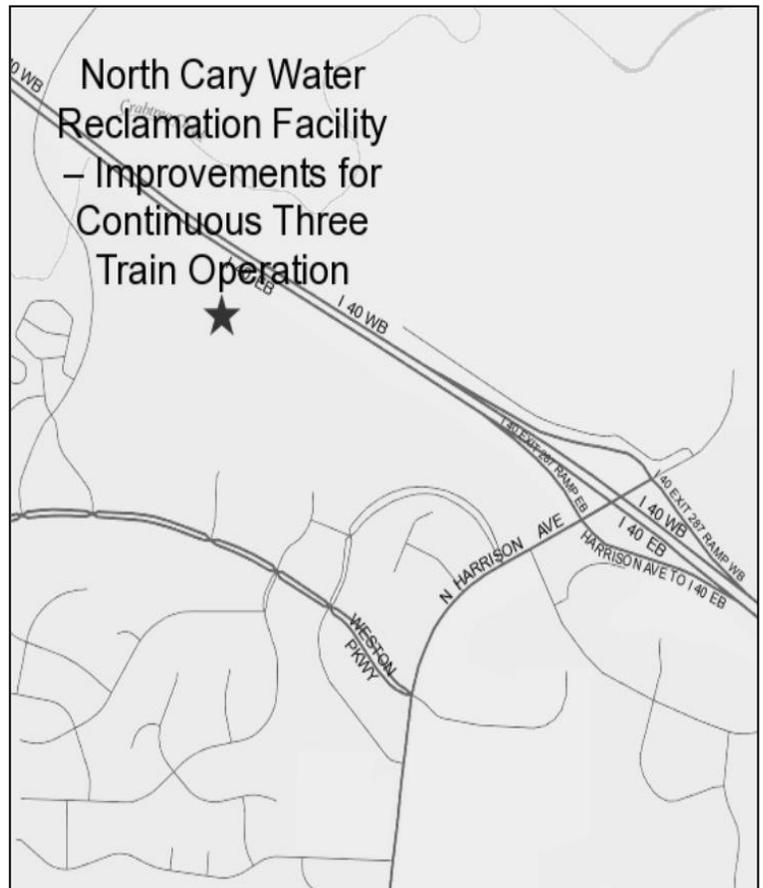
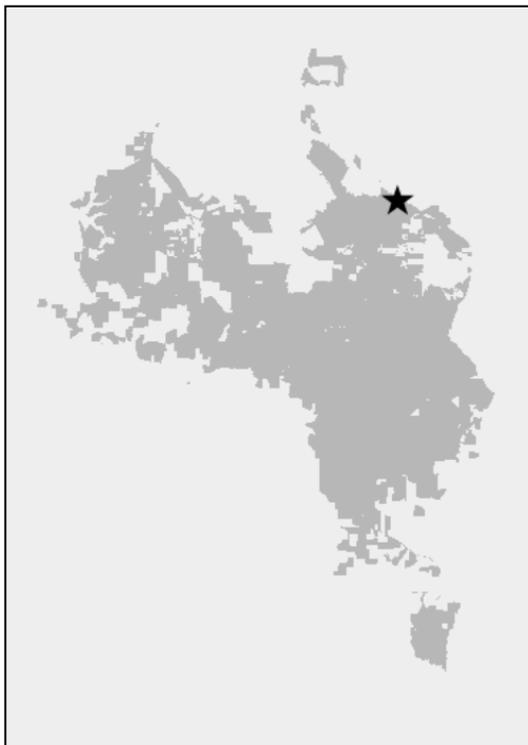
PROJECT DESCRIPTION:

The \$50,000 FY 2018 appropriation provides for the acquisition and replacement of instruments; concrete repairs; replacement seals; seeding; pumping and SCADA modifications related to the North Cary Water Reclamation Facility's (NCWRF) two existing BNR process trains.

PROJECT JUSTIFICATION:

As the Town prepares for the future addition of a third biological nutrient removal (BNR) process train at the North Cary Water Reclamation Facility (NCWRF), there are improvements and/or replacements that must occur on the two existing trains in order to successfully implement the third.

PROJECT LOCATION:



I. SEWER

PROJECT TITLE: NCWRF – Mixer Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

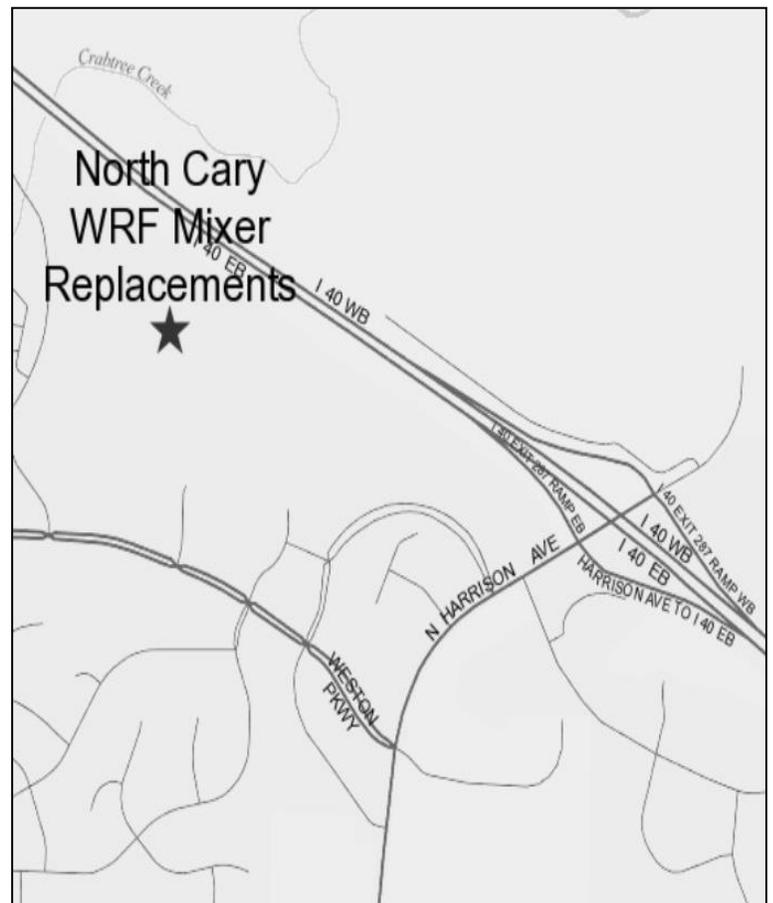
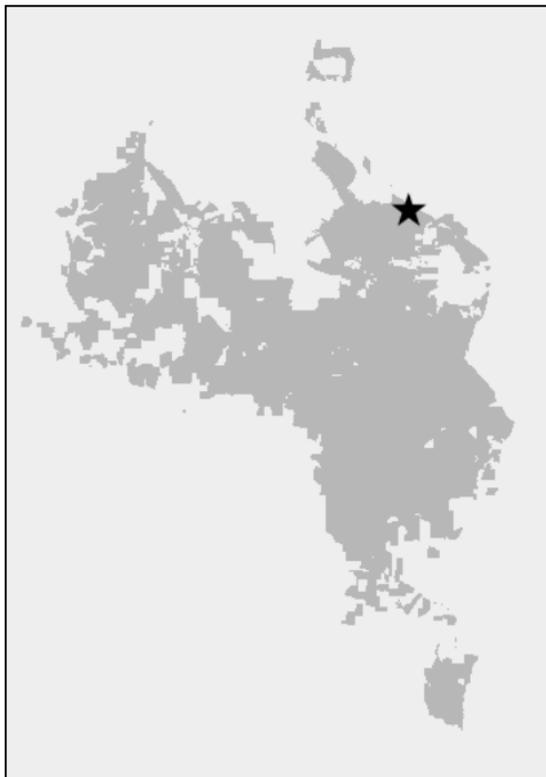
PROJECT DESCRIPTION:

This project provides for the replacement of 12 of 36 mixers located in two separate treatment basins at the North Cary Water Reclamation Facility (NCWRF). Total project cost to replace the first twelve mixers is estimated at \$700,000. The \$500,000 appropriated to date initiates these replacements while the \$200,000 FY 2018 appropriation provides the remaining funds needed for this initial phase.

PROJECT JUSTIFICATION:

The mixers located at the NCWRF run continuously. This equipment plays an important role in the facility's overall wastewater treatment process by creating physical conditions that support biological removal of nutrients and other wastewater parameters as required by the Town's National Pollutant Discharge Elimination System (NPDES) permits.

PROJECT LOCATION:



J. SEWER

PROJECT TITLE: NCWRF - Partial and Full Diffused Air System

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$420,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

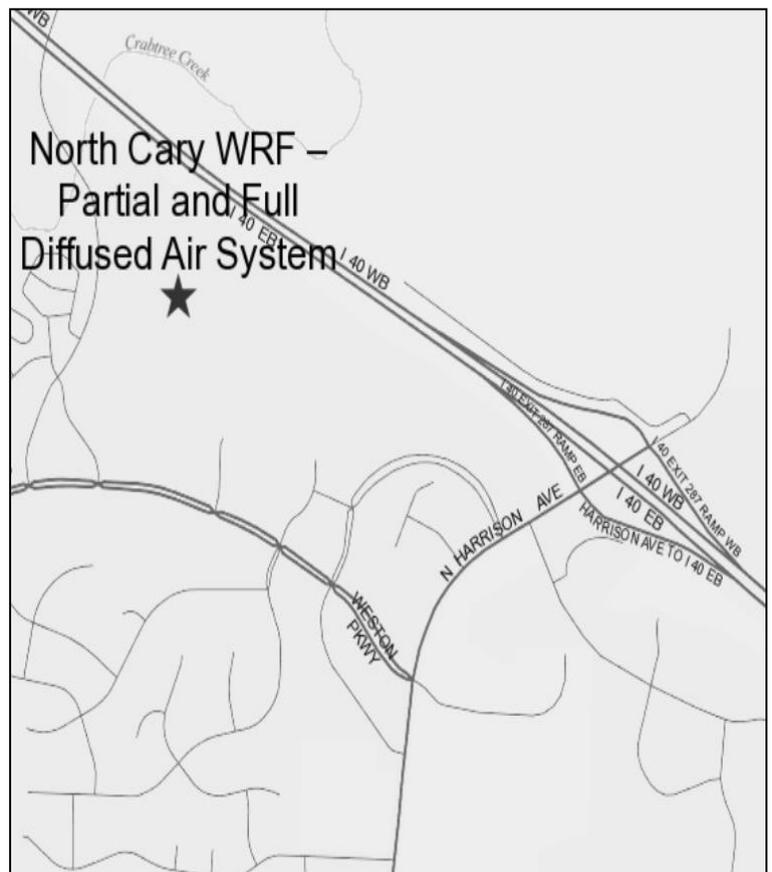
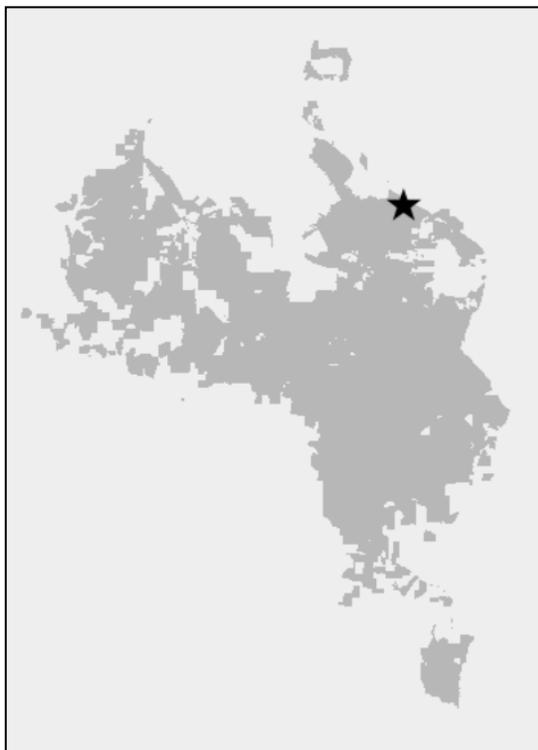
PROJECT DESCRIPTION:

This project supports upgrades to the North Cary Water Reclamation Facility's aeration processes that will help the facility maintain water quality standards while treating the increased flow expected to occur within the next 3 to 5 years. Total project cost is estimated at \$7,220,000. Appropriations to date total \$6,800,000 and address initial construction needs. The \$420,000 FY 2018 appropriation fully funds construction and project completion.

PROJECT JUSTIFICATION:

Additional aeration at the NCWRF will allow the plant to process another one million gallons per day (MGD) within the existing facility's two train system. This addition will also maintain the viability of a two train operation for at least another 5-7 years. An external consultant reviewed capacity needs associated with the North Cary Water Reclamation Facility and determined that this project is the most efficient way of continuing the two train operation at the facility while meeting near-term capacity needs.

PROJECT LOCATION:



K. SEWER

PROJECT TITLE: Reclaimed Water Line Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$167,475

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for reimbursements to developers for the cost of reclaimed water lines installed to serve needs beyond those of their individual projects.

PROJECT JUSTIFICATION:

Current Town of Cary policy allows developers to be reimbursed for the cost difference between installing infrastructure that serves only their needs and installing infrastructure that meets the Town's need to serve areas outside of the development. Reimbursements to developers are made upon completion and acceptance of the oversized reclaimed water lines.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

L. SEWER

PROJECT TITLE: Sanitary Sewer Oversizings

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$195,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for reimbursements to developers for the cost of sewer lines installed to serve needs beyond those of their individual projects.

PROJECT JUSTIFICATION:

Current Town of Cary policy allows developers to be reimbursed for the cost difference between installing infrastructure that serves only their needs and installing infrastructure that meets the Town's need to serve areas outside of the development. Reimbursements to developers are made upon completion and acceptance of the oversized lines.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

M. SEWER

PROJECT TITLE: SCWRF – Aeration Basin and Air Header Repair

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

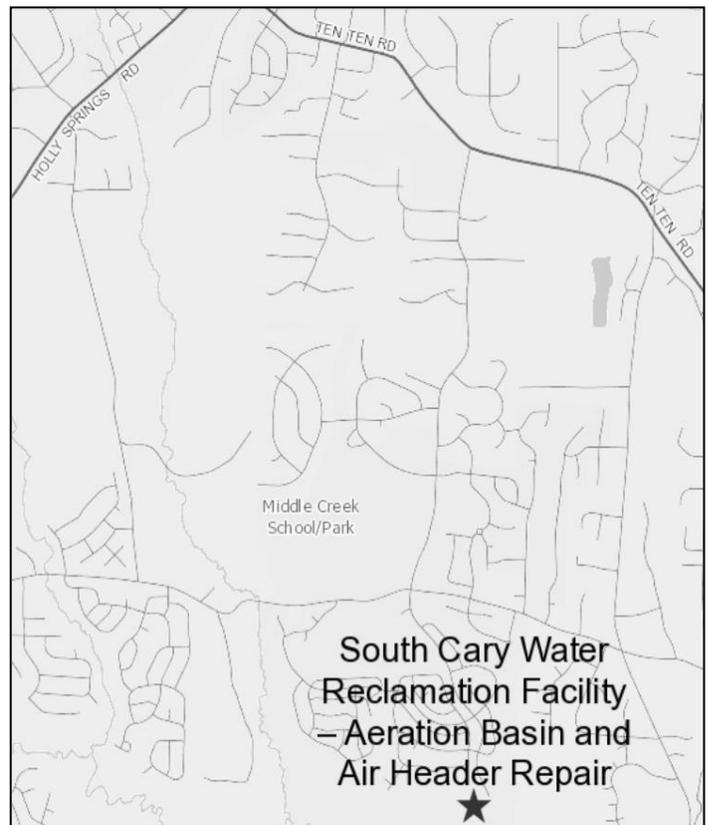
PROJECT DESCRIPTION:

This project provides for repairs to the aeration basins and air headers at the South Cary Water Reclamation Facility. Total project cost is estimated at \$275,000. The \$175,000 appropriated to date provided repairs to equipment in associated with aeration basins one and three. The \$100,000 FY 2018 appropriation provides funding for an engineering evaluation and repair of air leaks that have since been discovered in the facility's 36-inch trunk line, associated air headers, aerations pipes and valves.

PROJECT JUSTIFICATION:

The aeration pipes, valves, pumps, mixers, and dissolved oxygen (DO) probes/meters are critical to optimizing treatment efficiency of the biological nutrient removal basins and maintaining compliance with National Pollutant Discharge Elimination System (NPDES) regulations.

PROJECT LOCATION:



N. SEWER

PROJECT TITLE: SCWRF – Aeration Basin Blower Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$325,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

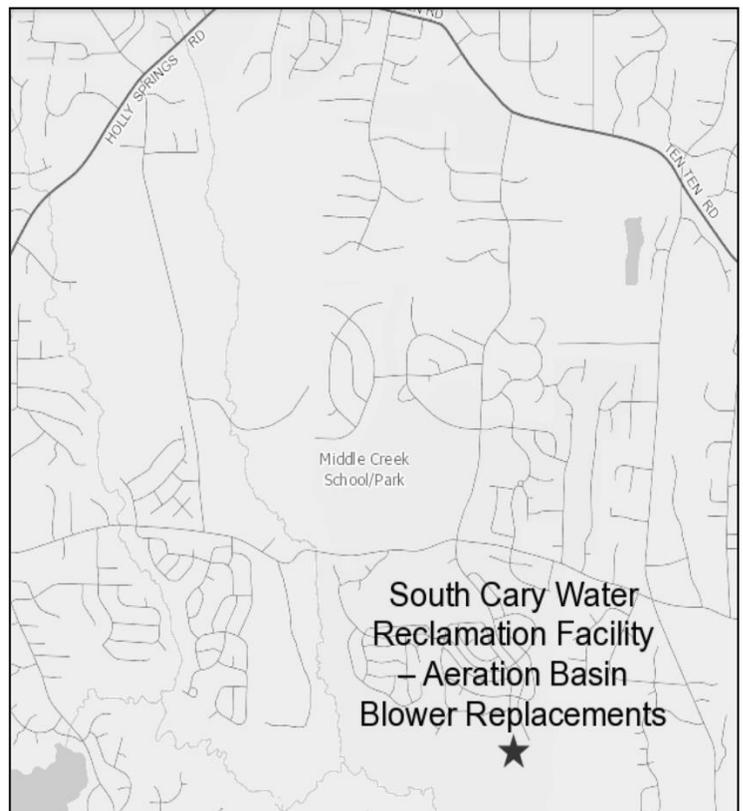
PROJECT DESCRIPTION:

This project provides for the replacement of two of the multistage centrifugal aeration blowers at the South Cary Water Reclamation Facility (SCWRF) with high efficiency units that will more efficiently aerate wastewater during the biological treatment process. Total project cost is estimated at \$1,000,000. The \$325,000 FY 2018 appropriation funds the replacement of one of the 1998 units with a high efficiency turbo blower. The current replacement schedule notes a \$325,000 funding need for the replacement of a second 1998 blower in FY 2021. A \$350,000 funding need in FY 2028 would replace the third of the facility's four blowers.

PROJECT JUSTIFICATION:

Three of the four original multistage centrifugal aeration blowers in service were purchased and installed in 1998. The fourth blower was replaced with a high efficiency unit in 2012 and has since achieved a 23% reduction in energy consumption and produces less noise and heat than the remaining three units. As the three older blowers near the end of their life cycles, repair costs are increasing and control components are becoming obsolete and difficult to find.

PROJECT LOCATION:



O. SEWER

PROJECT TITLE: SCWRF – Aeration Basin Recycle Pump Replacements

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$80,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of the three recycle pumps that each serve a treatment basin at the South Cary Water Reclamation Facility (SCWRF). Total project cost is estimated at \$240,000. The \$80,000 FY 2018 appropriation replaces one pump. Additional \$80,000 funding needs identified in FYs 2019 and FY 2020 support replacement of one pump each year resulting in all of the facility's pumps being replaced by the close of FY 2020.

PROJECT JUSTIFICATION:

Each of these pumps was originally installed in 1998. This equipment runs continuously and is essential to maintaining the optimum biological nutrient removal required by the facility's National Pollutant Discharge Elimination System (NPDES) permit. All three recycle pumps have life expectancies of 5 – 10 years and have been repaired at least once each since installation.

PROJECT LOCATION:



P. SEWER

PROJECT TITLE: SCWRF – Clarifier Equipment Repair and Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

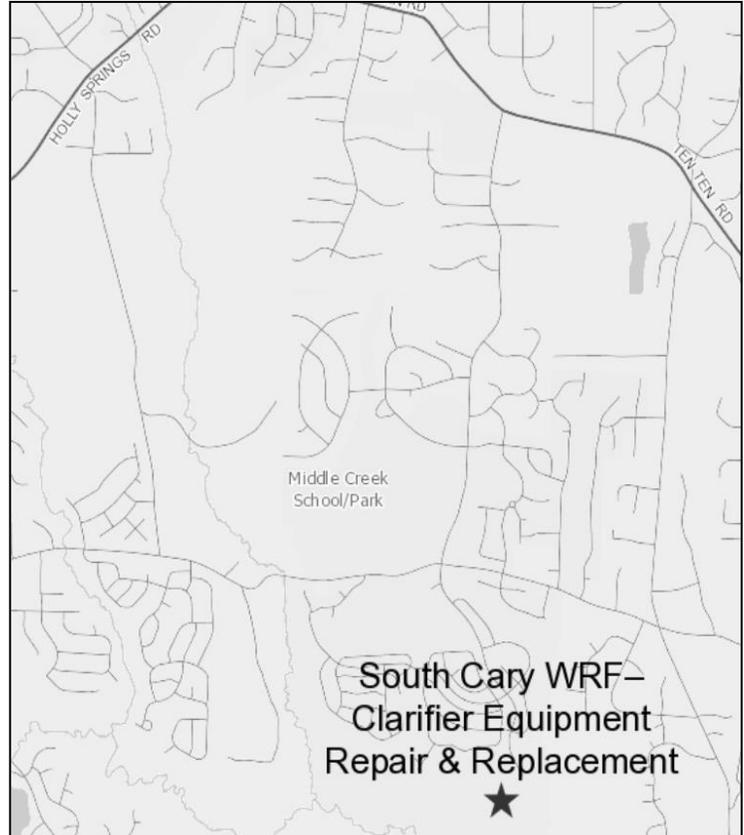
PROJECT DESCRIPTION:

This project provides for phased repairs to the skimmers, weirs, rakes, and drive structures with assemblies on the four existing secondary clarifiers at the South Cary Water Reclamation Facility (SCWRF). Total project cost is estimated at \$750,000. The \$200,000 appropriated to date provides for significant repairs to one of two clarifiers that have been in operation for 25 years. The \$200,000 FY 2018 appropriation supports repairs to the second of the oldest clarifiers, while a \$100,000 funding need in FY 2019 would address repairs to the two newer clarifiers that are each 16 years old. A \$250,000 funding need noted in FY 2024 would provide for structural repairs, coatings and any additional mechanical repairs.

PROJECT JUSTIFICATION:

The manufacturer’s recommendation for rebuild/significant repair of the clarifiers is approximately every 15 years.

PROJECT LOCATION:



Q. SEWER

PROJECT TITLE: SCWRF – Peak Flow Management Study

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

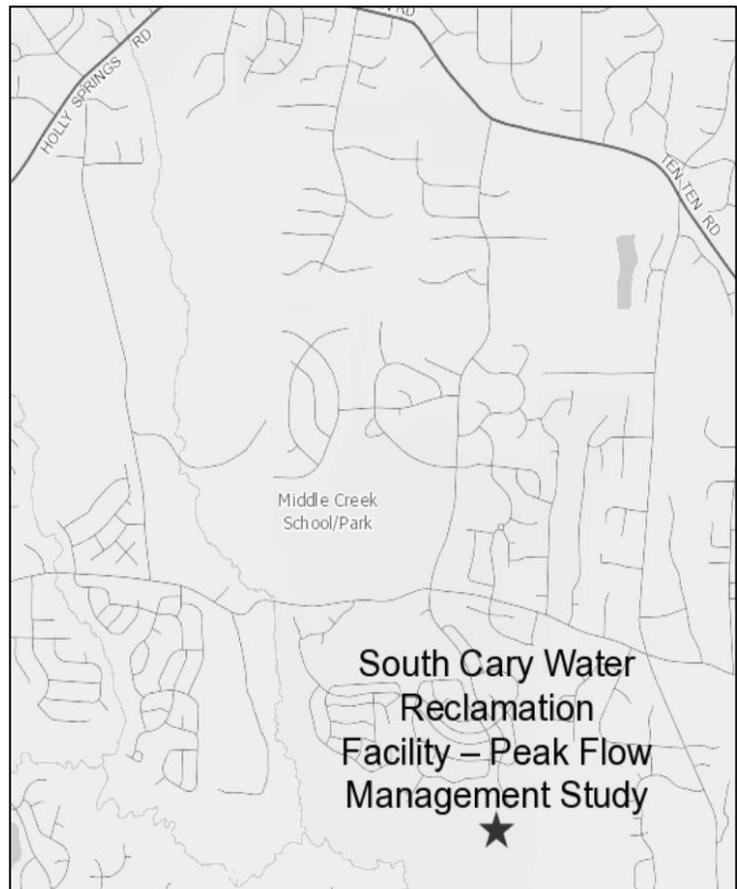
PROJECT DESCRIPTION:

This project provides for an engineering study resulting in recommendations on how to improve peak flow management through the temporary use of existing storage tanks and polishing ponds. Total project cost is estimated at \$650,000. The \$150,000 FY 2018 appropriation funds the study itself, while an additional \$500,000 would be needed in FY 2020 for equipment modifications which would allow peak flow to temporarily be conveyed to these resources.

PROJECT JUSTIFICATION:

The South Cary Water Reclamation Facility (SCWRF) treats an average of 5.0 million gallons per day (MGD) and can experience instantaneous peaks of up to 22 MGD.

PROJECT LOCATION:



R. SEWER

PROJECT TITLE: SCWRF – Gravity Belt Thickener Rebuild

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

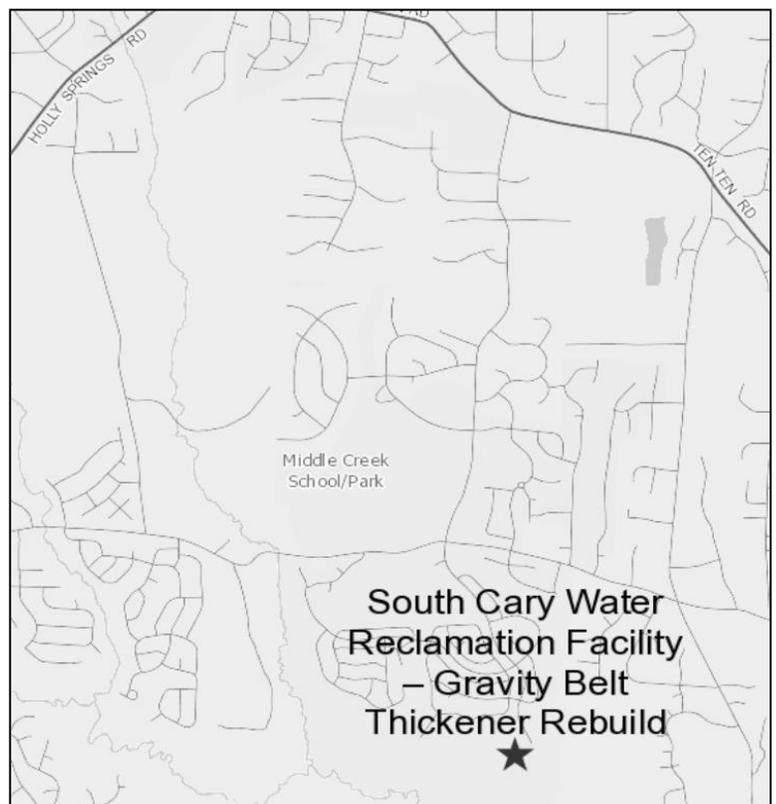
This project provides for the rebuilding of the major components of the two gravity belt thickeners located at the South Cary Water Reclamation Facility (SCWRF). Total project cost is estimated at \$400,000. The \$150,000 FY 2018 appropriation rebuilds both gravity belt thickeners. An additional \$250,000 funding need noted in FY 2026 would support additional repair, restoration and parts replacement.

PROJECT JUSTIFICATION:

Both of the SCWRF's thickeners have been in constant service in a harsh wastewater environment since their installation in 1998. The manufacturer indicates a typical life cycle of 20 years with regular maintenance.

Wasted biosolids must be thickened prior to storage in order to optimize biosolids handling processes and storage levels. The gravity thickeners are automated with major components including local control panels, polymer feed batching units, hydraulic systems, dewatering belts, belt tracking and overload sensors, belt and filtrate tray support structures, polymer injection fittings, cleaning spray wash box assembly, and other ancillary equipment such as progressive cavity thickened sludge pumps and material hoppers with level instrumentation.

PROJECT LOCATION:



S. SEWER

PROJECT TITLE: SCWRF – HVAC Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$56,400

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

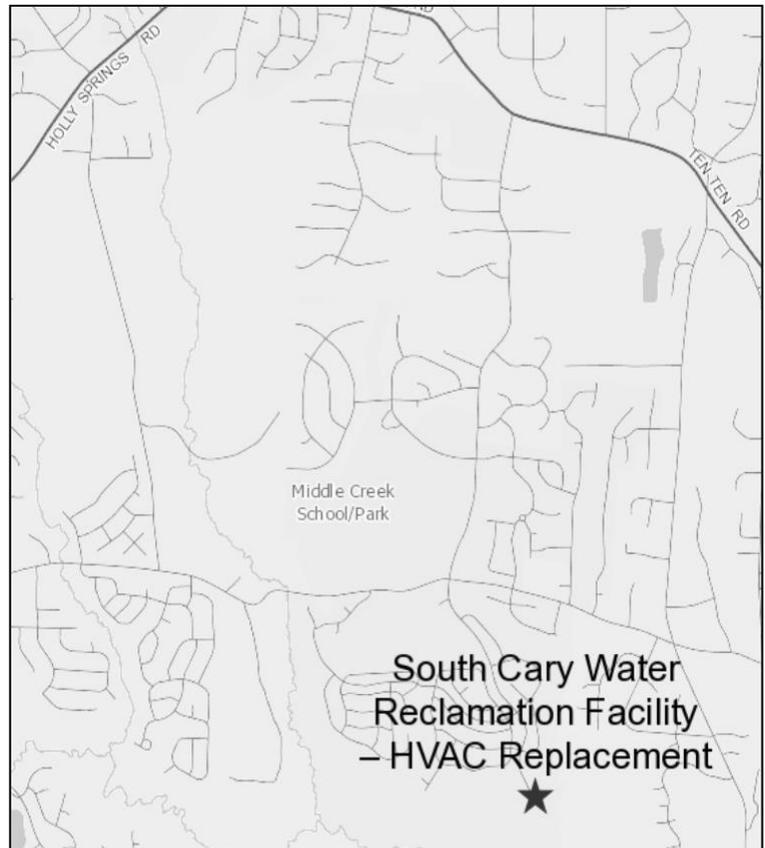
This project provides for the scheduled replacement of HVAC systems and major components at the South Cary Water Reclamation Facility.

PROJECT JUSTIFICATION:

The replacement schedule was created based on useful life estimates for the equipment. As the time of replacement approaches, maintenance history and current performance are considered before determining if the unit may remain in service longer than anticipated or if replacement is indeed warranted.

Routine maintenance and scheduled replacements of HVAC equipment is an important component of a well-managed facilities maintenance program. Planning for repairs and maintenance allows for better cost and efficiency management.

PROJECT LOCATION:



T. SEWER

PROJECT TITLE: SCWRF – Variable Frequency Drive Replacement

RESPONSIBLE DEPARTMENT: Utilities

PROJECT FUNDING: \$200,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

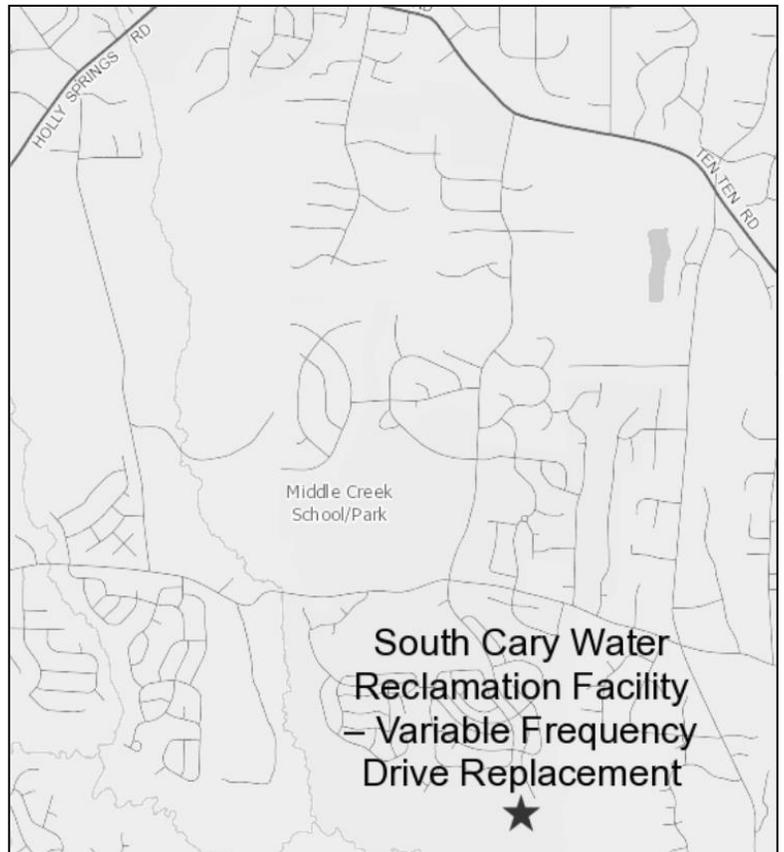
PROJECT DESCRIPTION:

This project provides for the phased replacement of variable frequency drives at the South Cary Water Reclamation Facility. There are twenty-two drives in total. Total project cost is estimated at \$600,000. The \$200,000 FY 2018 appropriation initiates this process by replacing the oldest units first. An additional \$200,000 would be required in FY 2019 and FY 2022 to completely replace all drives.

PROJECT JUSTIFICATION:

Variable frequency (speed) drives are utilized to control and optimize equipment speeds, or flow rates, in multiple areas of the SCWRF. This equipment is an integral component in returning activated sludge to the biological treatment processes, wasting activated sludge from the biological treatment system, conducting biological process aeration and conveying wet material through the dewatering and thermal drying process.

PROJECT LOCATION:



U. SEWER

PROJECT TITLE: Sewer Flow Management Modeling Scenarios

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for additional wastewater system modeling scenarios to help evaluate alternative sewer flow management options for more efficient management of peak sewer flows. Total project cost is estimated at \$450,000. Appropriations through FY 2017 total \$300,000 and support detailed modeling of alternate sewer flow management strategies. The \$150,000 FY 2018 appropriation continues the detailed modeling of alternate sewer flow management scenarios.

PROJECT JUSTIFICATION:

As the wastewater collection system has expanded, the Town has more options to shift sewer flows during periods when peak flows exceed the system capacity of downstream facilities. Sewer modeling scenarios help Town of Cary staff better determine the most efficient sewer flow management options.

PROJECT LOCATION:

This project is not associated with a specific location within the Town's utility system.

V. SEWER

PROJECT TITLE: Sewer System Repair/Rehabilitation

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$5,428,112

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for maintenance of the Town's sewer system. Maintenance includes sewer main repair/rehabilitation, inflow/infiltration elimination, manhole repair and force main discharge manhole coating. Underground camera investigations, pipe cleaning and other field observation methods are employed to determine the system's maintenance needs. Repairs funded through this capital project are larger in scope than what can be performed in-house by the Utilities department.

PROJECT JUSTIFICATION:

Sewer system rehabilitation eliminates inflow and infiltration into the system and keeps the Town's wastewater collection system operating properly by improving maintenance capability and eliminating structural deficiencies. Sewer lines and manholes in poor condition are sources of infiltration and inflow into the Town's wastewater collection system. Failure to adequately maintain and/or repair such conditions increases the likelihood of service disruption and sewer overflows.

PROJECT LOCATION:

This project will occur in various locations throughout the Town's utility system as the need arises.

W. SEWER

PROJECT TITLE: Upper Crabtree Creek Pump Station and Force Main

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$1,100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

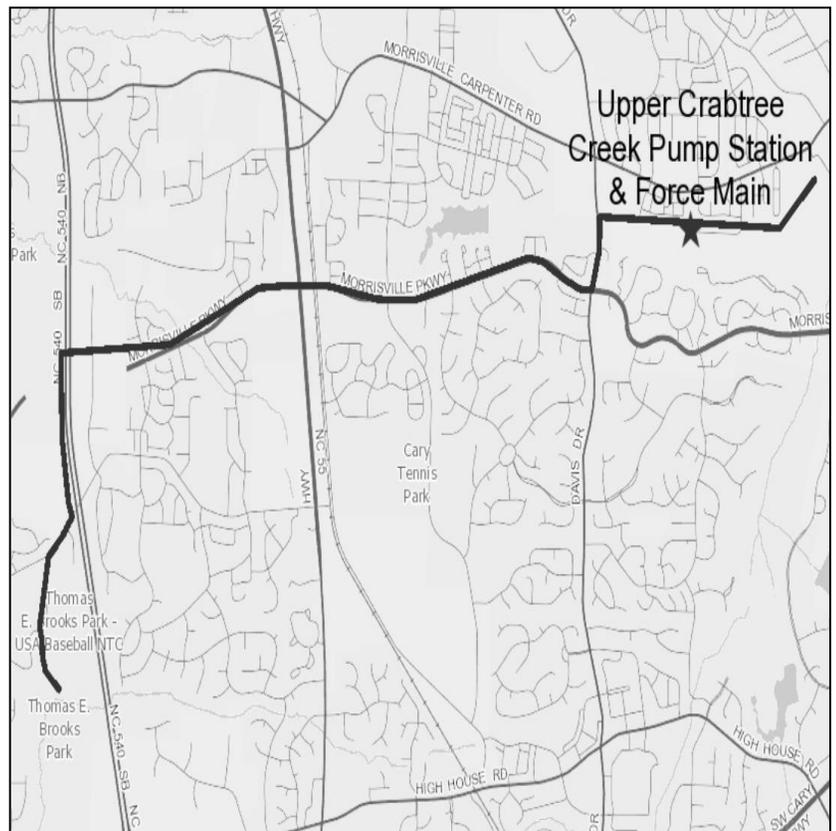
This project supports property acquisition, design and construction of a 6.6 million gallons per day (MGD) pump station and 30,000 linear feet of 20-inch force main to shed excess wet weather flow to the Western Wake Water Reclamation Facility (WWRF). The pump station will be located near the Crabtree interceptor just west of NC 54 and will pump wastewater flow from the upper Crabtree interceptor service area to the West Cary regional pump station via the Batchelor Branch interceptor located west of NC 55.

Total project cost is estimated at \$21,080,000. Appropriations to date of \$3,080,000 funded a detailed evaluation of the Crabtree interceptor service area as well as easement acquisition and design. The \$1,100,000 FY 2018 appropriation supports property acquisition and design while an additional \$16,900,000 would be required in FY 2019 for construction.

PROJECT JUSTIFICATION:

This project will serve Town of Cary utility system flows in the North Cary Water Reclamation Facility service area.

PROJECT LOCATION:



X. SEWER

PROJECT TITLE: Wastewater Collection System Master Plan Update

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for a consultant update of the Town's Wastewater Collection System Master Plan. The \$250,000 FY 2018 appropriation fully funds this update. An additional \$250,000 funding need is noted in FY 2023 for a five year update of this plan.

PROJECT JUSTIFICATION:

This plan serves as the primary planning resource for determining wastewater infrastructure needs.

PROJECT LOCATION:

This project is not associated with a specific location within the Town's utility system.

Y. SEWER

PROJECT TITLE: Winding Pine Regional Pump Station, Gravity Sewer and Force Main

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

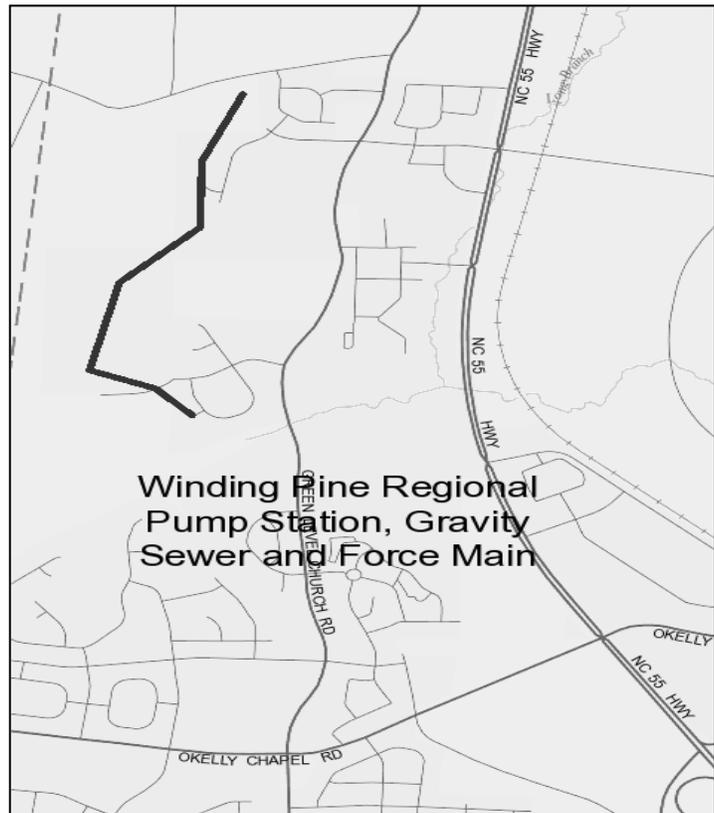
This project provides for the design, easement acquisition, permitting and construction of a 5 MGD regional pump station downstream of the existing Kit Creek pump station. The project will also design and install 2,300 linear feet of 42-inch gravity sewer line and 2,300 linear feet of 20-inch force main to serve the pump station.

Project cost is estimated at \$6,700,000. Appropriations to date of \$1,800,000 fund a preliminary engineering report, easement acquisition and design. The \$500,000 FY 2018 appropriation provides for initial construction funding. A \$4,400,000 funding need noted in FY 2019 of the capital improvements plan supports the majority of the project's construction needs.

PROJECT JUSTIFICATION:

This project will provide gravity sewer service to the remainder of the utility system's northwestern service area and allow for the elimination of the Kit Creek pump station which would otherwise require extensive improvements.

PROJECT LOCATION:



FISCAL YEAR 2018 GENERAL CAPITAL IMPROVEMENTS

TRANSPORTATION CAPITAL IMPROVEMENTS FUND

A.	20,000	Aviation Parkway Sidewalk Reimbursement - NE Quadrant at I-40 Interchange
B.	25,000	Bicycle Facilities Implementation
C.	85,000	Bridge and Culvert Repairs
D.	3,000,000	Carpenter Fire Station Road/CSX Rail Grade Separation
E.	1,100,000	Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)
F.	895,000	GoCary ADA Bus Stop Improvements
G.	43,000	GoCary Bus Stop Sign Replacement
H.	75,000	GoCary Capital Amenities
I.	1,000,000	GoCary Regional Operations and Maintenance Facility
J.	6,397,500	Reedy Creek Road Widening - NE Maynard Road to N Harrison Avenue
K.	1,000,000	Sidewalk and Pedestrian Improvements
L.	225,000	Spot Improvements - Based on Levels of Service, Safety and Citizen Concerns
M.	6,500,000	Street Improvement Project
N.	250,000	Street Storm Drainage System Rehabilitation
O.	400,000	Traffic Signalization Projects
P.	600,000	Transportation Feasibility Studies
	21,615,500	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2018 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. TRANSPORTATION

PROJECT TITLE: Aviation Parkway Sidewalk Reimbursement – NE Quadrant at I-40 Interchange

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$20,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

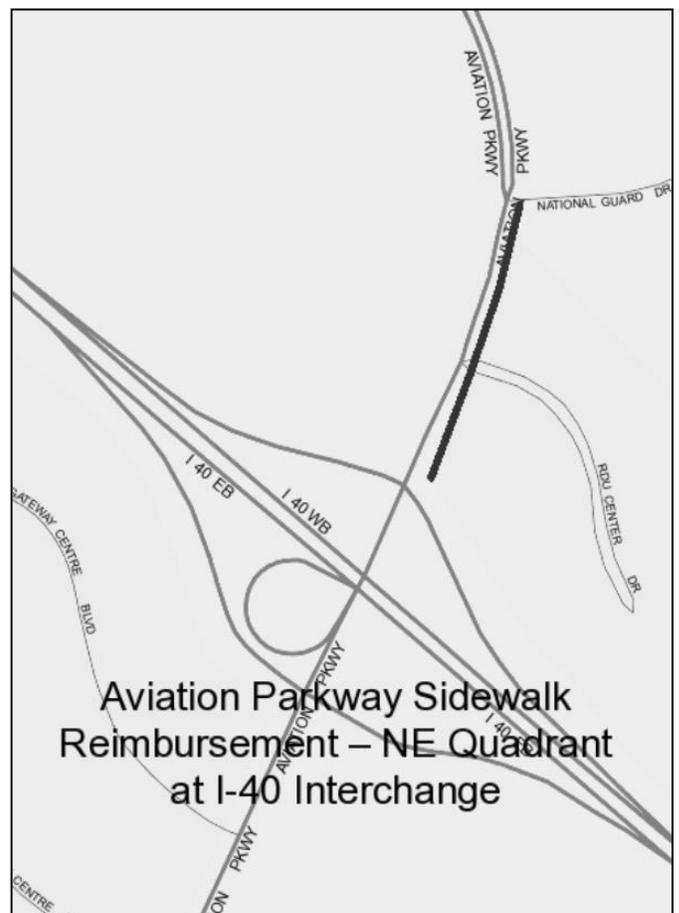
PROJECT DESCRIPTION:

The \$20,000 FY 2018 appropriation fully funds the Town's reimbursement to NCDOT for sidewalk construction in conjunction with road improvements being completed by the state on the northeastern quadrant of the Aviation Parkway and I-40 Interchange.

PROJECT JUSTIFICATION:

The North Carolina Department of Transportation (NCDOT) has funded improvements to the Aviation Parkway and I-40 interchange within Cary. The NCDOT will include sidewalk construction with the interchange work if requested and reimbursed by the municipality. The Town of Cary views this as a great opportunity to provide pedestrian facilities along Aviation Parkway for access to nearby office, retail, hotel and bus stop facilities. The Town's portion of sidewalk will be located on the northeastern quadrant of the interchange running along Aviation Parkway from the I-40 westbound exit ramp to National Guard Drive.

PROJECT LOCATION:



B. TRANSPORTATION

PROJECT TITLE: Bicycle Facilities Implementation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$25,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a variety of activities related to the implementation of bicycle transportation facilities identified in the bicycle element of the Town's Comprehensive Transportation Plan. These activities include:

- the addition of bicycle lanes (including sharrow lanes)
- bicycle lane signage improvements
- the creation of bicycle parking opportunities
- funding to support the Town's bicycle facility request program

The FY 2018 \$25,000 appropriation to this project will be used either to directly address initiatives such as these, or as grant match funding in instances where the Town has been awarded bicycle facility grant funding.

PROJECT JUSTIFICATION:

The Town's bicycle facilities implementation program is focused on increasing the quality of life and health for Cary citizens by providing opportunities to use alternative transportation methods.

PROJECT LOCATION:

This project will occur at various locations throughout the Town as the need arises.

C. TRANSPORTATION

PROJECT TITLE: Bridge and Culvert Repairs

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$85,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The \$85,000 FY 2018 appropriation will be directed to maintenance needs at bridges and/or culverts as identified in the most recent state-completed bridge and culvert evaluation.

PROJECT JUSTIFICATION:

The North Carolina Department of Transportation (NCDOT) evaluates the Town's bridges and culverts every two years. Funds provided by this project address any maintenance work and/or upgrades recommended by NCDOT as a result of their inspection process. Failure to maintain bridges/culverts as directed by NCDOT results in violation of state recommendations, safety issues and cost escalation if the work is deferred to a later date.

PROJECT LOCATION:

This project will occur at various locations throughout the Town.

D. TRANSPORTATION

PROJECT TITLE: Carpenter Fire Station Road/CSX Rail Grade Separation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$3,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

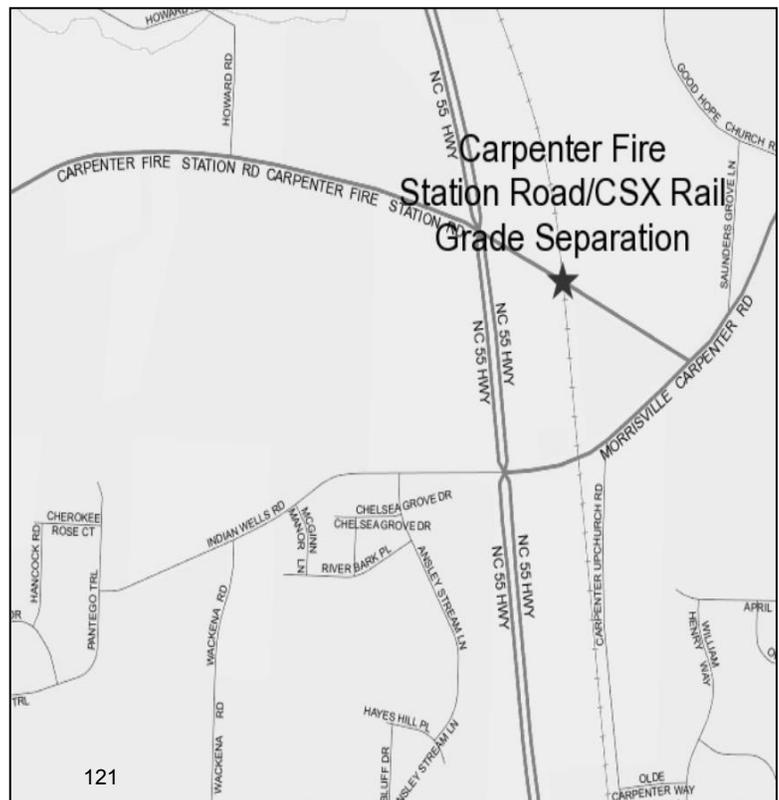
This project supports realignment of Carpenter Fire Station Road from the NC-55 highway to Morrisville-Carpenter Road just west of Louis Stephens Drive.

Total project cost is estimated at \$21,220,000. A total of \$18,220,000 has been appropriated to date for right-of-way acquisition, design and construction. The \$3,000,000 FY 2018 appropriation supports construction costs associated with an agreement between the Town of Cary and CSX Rail Road which requires that the scope of the rail road bridge increase from a single track to a double in order to accommodate future rail expansion.

PROJECT JUSTIFICATION:

The project incorporates a new four-lane, median divided roadway with paved shoulders for bicycles as indicated on the Town’s Comprehensive Transportation Plan (CTP) and the Carpenter Community Plan. A grade-separated railroad crossing of the CSX Railroad realignment and the connection of several existing side streets in the project path (such as the existing Morrisville-Carpenter Road, Good Hope Church Road and Saunders Grove Lane) are also included. After completion of the roadway realignment project, the existing at-grade crossings of Morrisville-Carpenter Road and Carpenter Fire Station Road just east of the NC-55 highway will be permanently closed.

PROJECT LOCATION:



E. TRANSPORTATION

PROJECT TITLE: Carpenter Fire Station Road Widening
(NC 55 to East of Cameron Pond)

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

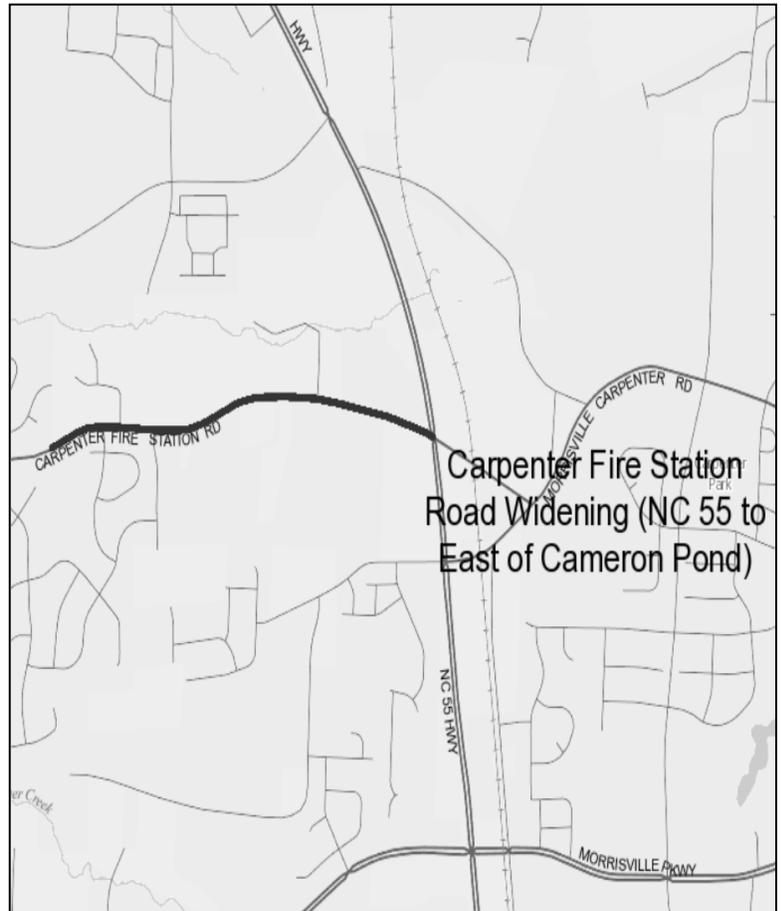
This project provides for the widening of Carpenter Fire Station Road from NC 55 highway to just east of the Cameron Pond development. The widened segment will be a four-lane, median divided roadway with curb, gutter and sidewalks on both sides. A left turn lane will be added at critical intersections.

Total project cost is estimated at \$9,700,000. The \$1,100,000 FY 2018 appropriation supports design by a consultant team. An additional \$2,500,000 would be needed in FY 2019 for right of way acquisition with another \$6,100,000 identified in FY 2020 for construction.

PROJECT JUSTIFICATION:

This widening will address congestion issues in the western segment of Cary by providing additional roadway capacity.

PROJECT LOCATION:



F. TRANSPORTATION

PROJECT TITLE: GoCary ADA Bus Stop Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$895,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
<u>Operating & Maintenance</u>	<u>\$20,000</u>
Total	\$20,000

PROJECT DESCRIPTION:

This project provides for upgrades to existing GoCary bus stops in order to bring them into compliance with requirements of the Americans with Disabilities Act (ADA) and construction of new ADA compliant bus stops associated with expanded GoCary routes funded through the Wake County Transit Plan. Improvements will be site specific and could include features such as: concrete boarding pads, benches, bike racks and any necessary associated ramp and/or sidewalk improvements.

The \$895,000 FY 2018 appropriation is funded with LAPP grant funding (\$400,000) and Wake County Transit Tax proceeds (\$495,000).

PROJECT JUSTIFICATION:

The Federal Highway Administration's Pedestrian Safety Guide for Transit Agencies states that the location and design of transit stops can significantly impact the safety and comfort of pedestrians accessing transit services. ADA guidelines (10.2.1) require a boarding pad to be located at bus stops to allow pedestrians to enter and exit the bus safely without entering the street. This boarding pad must have a firm, stable surface that is free of obstructions and connected to the adjacent sidewalk network.

PROJECT LOCATION:

This project will occur in various locations throughout the GoCary service area.

G. TRANSPORTATION

PROJECT TITLE: GoCary Bus Stop Sign Replacement

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$43,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the system-wide replacement of C-Tran bus stop signs with the Town's recently rebranded system name of GoCary. The \$43,000 FY 2018 appropriation is fully funded with proceeds from the Wake County Transit tax and provides for replacement (including fabrication, pole acquisition, hardware and installation) of all 220 signs within the GoCary system.

PROJECT JUSTIFICATION:

As a part of the Wake County Transit Plan (WCTP), and the regional GoTransit rebranding initiative, all bus stop signage must be replaced with GoCary branding. Sign replacement will reflect appropriate and consistent GoCary rebranding for optimal citizen and general public recognition. System image is important for boosting ridership and maintaining a high level of customer recognition and satisfaction.

PROJECT LOCATION:

This project will occur in various locations throughout the GoCary service area.

H. TRANSPORTATION

PROJECT TITLE: GoCary Capital Amenities

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funding for capital related improvements such as transit shelters and amenities, bus stop lighting and technology within the existing GoCary system and its facilities. The Wake County Transit Plan (WCTP) requires that a base level of funding be provided annually by participating local governments in order to continue to receive Wake County Transit Tax funding. The FY 2018 \$75,000 appropriation is fully funded with Town of Cary dollars and fulfills this annual requirement.

PROJECT JUSTIFICATION:

As ridership continues to grow, there is a need to outfit existing bus stops with benches and shelters and implement appropriate technology to increase productivity and continue meeting Federal Transit Administration (FTA) regulations.

PROJECT LOCATION:

This project will occur in various locations throughout the GoCary service area.

I. TRANSPORTATION

PROJECT TITLE: GoCary Regional Operations and Maintenance Facility

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

Personnel	-
Operating & Maintenance	\$125,000
Total	\$125,000

PROJECT DESCRIPTION:

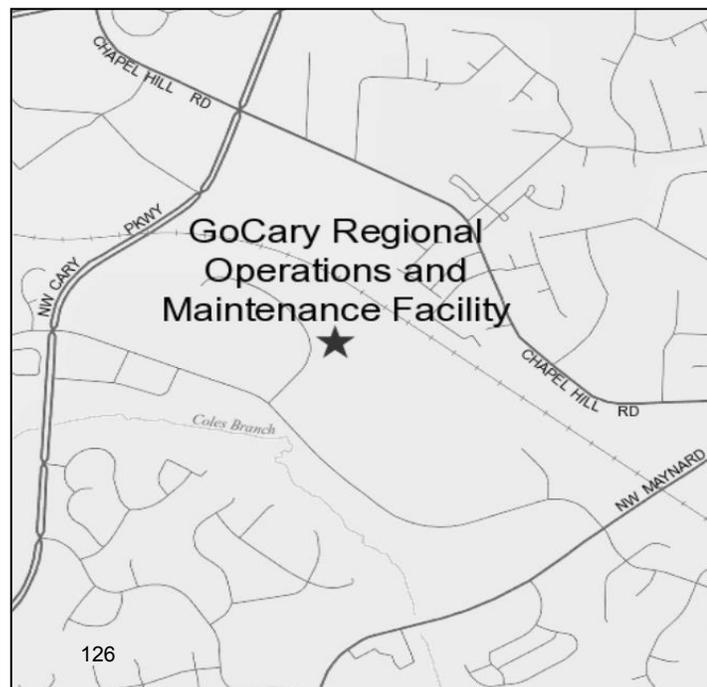
This project provides for the design and construction of a GoCary regional operations and maintenance facility to be located on Town owned property at 160 Towerview Court. Total project cost (exclusive of site acquisition) is estimated at \$11,000,000. The FY 2018 \$1,000,000 appropriation supports design. An additional \$10,000,000 funding need is noted in FY 2019 for construction. All of these funds are programmed within the Wake County Transit Plan and will be fully funded with Wake County Transit Tax dollars. Federal grant funds may be sought to supplement Wake County Transit Plan funds but have not been awarded. If Federal dollars are used on the project, it is anticipated that Wake County Transit Plan funds will be used as match, requiring no additional Town funds.

PROJECT JUSTIFICATION:

An Administration/Operations Facility Assessment Study was completed in 2011 indicating the GoCary system could realize substantial cost savings by owning its own transit facility. The Town’s service operations contractor currently leases space for GoCary transit operations, maintenance and vehicle storage

While the facility itself has not yet been designed, it is envisioned that this facility could serve as a fueling and repair station with lease arrangements to potentially serve other transit system provider vehicles as well. Alternative fuel sources for GoCary and Town vehicles could also be offered. It is envisioned that this site would accommodate GoCary’s facility needs now and for the foreseeable future.

PROJECT LOCATION:



J. TRANSPORTATION

PROJECT TITLE: Reedy Creek Road Widening – NE Maynard Road to N Harrison Avenue

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$6,397,500

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the widening of the 6,000 foot long NE Maynard Road to N Harrison Avenue segment of Reedy Creek Road to a three-lane cross section with curb and gutter, bicycle accommodations and sidewalk on both sides. This segment of Reedy Creek Road currently has no sidewalks or street lights.

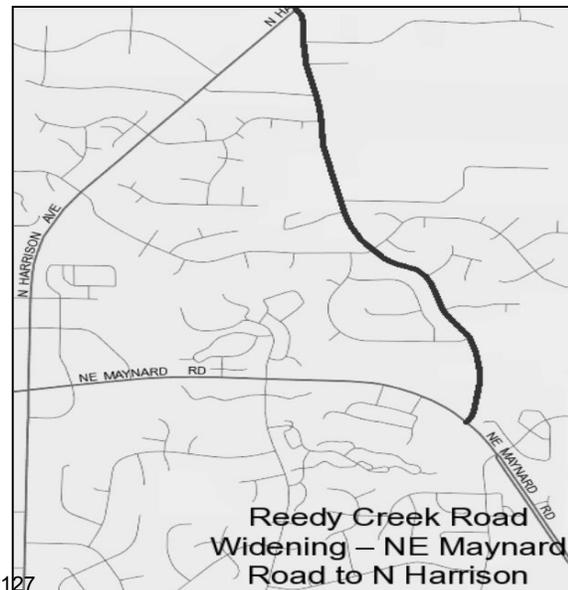
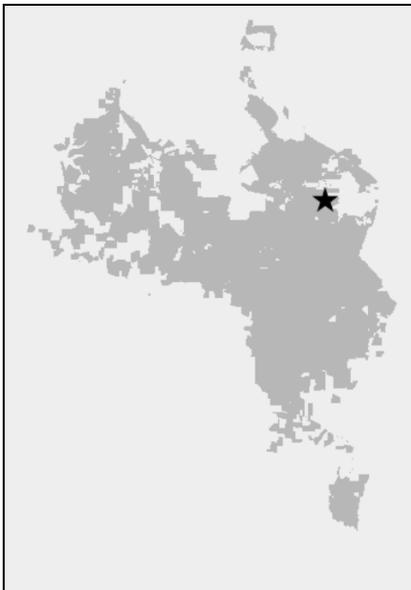
Total project cost is estimated at \$13,541,000. A total of \$600,000 has been appropriated to date for design. The \$6,397,500 FY 2018 appropriation funds the purchase of all right-of-way needed along the 6,000 foot segment as well as construction funding for 3,000 feet (or half) of the total segment. An additional \$6,543,500 funding need is identified in FY 2019 to address construction of the remaining 3,000 feet of the total road segment. The Town of Cary has been awarded a Surface Transportation Direct Allocation (STP-DA) grant that supports 80%, or \$5,118,000, of the \$6,397,500 FY 2018 appropriation. The Town of Cary provided \$1,279,500, or 20% of the total cost) in matching funds.

Staff will submit a second application for STP-DA funding in the Fall of 2017 for another 80%/20% grant to support construction of the remaining 3,000 feet of Reedy Creek Road. If awarded, grant funds would address \$5,234,800 of the \$6,543,500 FY 2019 funding need. The Town of Cary would be responsible for the remaining \$1,308,700. Should the grant not be awarded, the Town would need to fund the entire \$6,543,500 for project completion.

PROJECT JUSTIFICATION:

This segment of Reedy Creek Road currently has no sidewalks or street lights. This road widening will not only provide additional road capacity, but also offer safe pedestrian options for those walking to one of the schools, neighborhoods or retail establishments located in this area.

PROJECT LOCATION:



K. TRANSPORTATION

PROJECT TITLE: Sidewalk and Pedestrian Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the construction of new sidewalks along existing roadways. Selected sidewalks are requested by petition, prioritized by staff and approved by Town Council. Sidewalks identified in the Imagine Cary Plan may also be implemented. The project also provides funds to address pedestrian mobility problems at intersections. Examples include removing medians in crosswalks and adding or modifying wheel chair ramps and crosswalks. The scope of work completed at each intersection could be different based upon each intersection's specific needs. Intersections will be selected by staff and improvements implemented based on staff evaluation.

Project cost for FYs 2018 – 2028 is estimated at \$11,745,000. The FY 2018 appropriation totals \$1,000,000. The remaining \$10,745,000 is spread among annual funding needs noted in FYs 2019 – 2028 of the capital improvements plan.

PROJECT JUSTIFICATION:

Sidewalks are important to pedestrian safety and have become more important as an alternative mode of transportation. This project allows the Town to address sidewalk needs throughout Cary. The Town's sidewalk program was a consideration in Cary's designation as a Walk-Friendly Community.

PROJECT LOCATION:

This project will occur in various locations as determined by petition and staff prioritization.

L. TRANSPORTATION

PROJECT TITLE: Spot Improvements – Based on Levels of Service, Safety and Citizen Concerns

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$225,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project includes physical improvements at intersections and streets around the Town of Cary. Improvements could include the addition of left and right turn lanes, lengthening of turn lanes, or other alternate intersection improvements to address traffic flow, capacity and safety. Intersections will be selected by staff and improvements implemented based on staff evaluation. Project cost is estimated at \$2,812,500. The FY 2018 appropriation totals \$225,000. The remaining \$2,587,500 is spread among funding needs identified in FYs 2019 – 2028 of the capital improvements plan.

PROJECT JUSTIFICATION:

Most traffic congestion challenges in the Town’s transportation system are the result of the operations of individual intersections. Intersections are evaluated on a routine basis for Level of Service (LOS) in the morning and afternoon. This project implements improvements at intersections with the worst LOS ratings, as well as those with identified safety concerns.

PROJECT LOCATION:

Recommendations of specific intersections for improvement will be brought to Council throughout the course of the fiscal year.

M. TRANSPORTATION

PROJECT TITLE: Street Improvements Project

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$6,500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This maintenance project provides asphalt patching and overlays for various Town maintained streets. Streets are selected for improvement based on a rating system. Staff reviews specific street maintenance needs each fall and formulates a list of streets to be presented to and approved by Town Council and addressed each spring. FY 2018 funding is expected to allow for the full resurfacing of approximately 16 miles of streets as well as the application of various preventive maintenance measures where beneficial.

PROJECT JUSTIFICATION:

This project supports the Town's pavement management program and focuses on the implementation of pavement quality improvements in accordance with generally accepted resurfacing cycles.

PROJECT LOCATION:

This project will occur in various locations as determined by a rating system.

N. TRANSPORTATION

PROJECT TITLE: Street Storm Drainage System Rehabilitation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This maintenance project provides for storm drainage improvements to Cary's street drainage systems in the rights of way. Problem areas such as those where water stands at the curb, pipes fail and/or freezing water remains on the road surface are examples of the types of maintenance issues addressed via this project. The Town's Public Works department will continue to perform routine maintenance functions to the street storm drainage system. Only projects beyond the scope of Public Works' normal functions would fall under this project. Some criteria to define when this project would apply include:

- work takes longer than one week to repair;
- work requires additional right of way or easement;
- work requires a detailed design; and/or work requires bidding.

PROJECT JUSTIFICATION:

Routine maintenance of the Town's storm drainage system prevents failures and alleviates safety hazards. Town staff annually evaluates the storm drainage system and ranks problem areas from highest priority to least. Funding is first applied to those projects ranked as highest priority.

PROJECT LOCATION:

This project will occur at various locations as the need arises throughout the Town's transportation system.

O. TRANSPORTATION

PROJECT TITLE: Traffic Signalization Projects

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$400,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the installation of new traffic signals and poles at intersections throughout the Town of Cary. Funds are also used to convert existing traffic signals to metal poles and mast arms as necessary. Decisions on where new signals are to be placed and existing poles converted are based on signal studies analyzing signal warrants.

PROJECT JUSTIFICATION:

This project helps ensure that funding is available for the installation of needed traffic signals throughout the Town. The project's primary focus is to improve safety and congestion management at intersections.

PROJECT LOCATION:

This project will occur at various locations throughout the Town's transportation system as the need arises.

P. TRANSPORTATION

PROJECT TITLE: Transportation Feasibility Studies

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The FY 2018 \$600,000 appropriation supports the following three transportation feasibility studies as well as a fourth study whose location will be determined during the course of the fiscal year. Each study will incorporate public involvement.

- 1. *Green Level Church Road - from Green Level West Road to USA Baseball Entrance*** as a four-lane, median divided roadway with sidewalks. This study will provide recommendations that are sensitive to the historic context of this area.
- 2. *Trinity Road Extension – from Cary Town Boulevard to Chapel Hill Road*** as a four-lane, median divided roadway with sidewalks and street side trails with a grade separation of E Chatham Street and the North Carolina Rail Road (NCRR). The study will also evaluate additional at-grade or interchange access to Cary Towne Center Mall from Cary Towne Boulevard.
- 3. *McCrimmon Parkway - from NC55 to Louis Stephens Road*** as a four-lane median divided roadway with grade separation of the CSX rail road.

PROJECT JUSTIFICATION:

Feasibility studies are important evaluation tools when identifying potential road network solutions. These studies are conducted by transportation consulting firms and seek to thoroughly examine potential solutions by:

- determining street corridor alternative routes
- providing context sensitive solutions
- identifying types of impacts to be expected
- estimating costs
- predicting land development opportunities

PROJECT LOCATION:

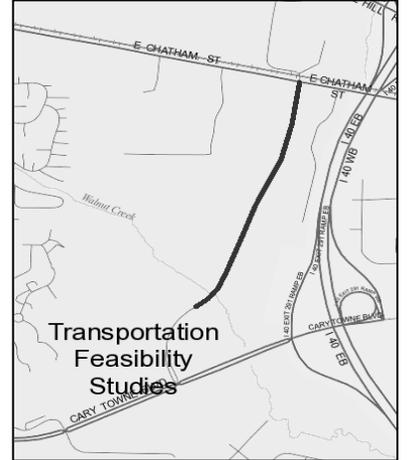


Green Level Church Road

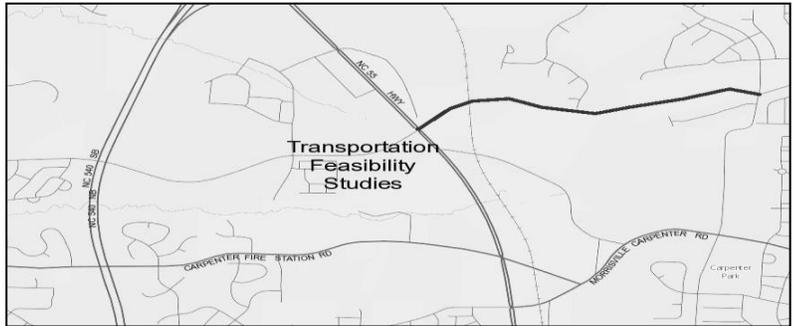


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Trinity Road Extension



McCrimmon Parkway



FISCAL YEAR 2018 GENERAL CAPITAL IMPROVEMENTS

FIRE CAPITAL IMPROVEMENTS FUND

A. 650,000 Fire Pumper Replacement - #1706

650,000 **Total**

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2018 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. FIRE

PROJECT TITLE: Fire Pumper Replacement - #1706

RESPONSIBLE DEPARTMENT: Fire

PROJECT FUNDING: \$650,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the replacement of pumper truck #1706 which has been in service since 2002 and reserve status since 2014. Class A fire engine pumpers are designed to transport five firefighters, equipment, 500 gallons of water and 2,000 feet of fire hose. Pumper trucks typically have an effective front-line life expectancy of 15 years with an additional 5 years once classified as a reserve apparatus. However, pumper truck #1706 is the only truck of its brand owned by the Town and has experienced a much higher rate of breakdowns over the course of the past 15 years. As it is a unique brand, replacement parts are often difficult to locate.

PROJECT JUSTIFICATION:

Based on input from the Town's Fleet Management division regarding current operating costs, down time, availability of parts and major component failure, it is recommended that this unit be replaced and sold as surplus rather than transitioned to reserve status. The \$650,000 FY 2018 appropriation fully funds this vehicle replacement.

PROJECT LOCATION:



FISCAL YEAR 2018 GENERAL CAPITAL IMPROVEMENTS

PARKS, RECREATION AND CULTURAL RESOURCES CAPITAL IMPROVEMENTS FUND

A.	50,000	Annie Jones Park Tennis Court Renovations
B.	48,000	Athletic Field Bleacher Replacements
C.	4,275,000	Black Creek Greenway Renovation - Phases I, II and V
D.	450,000	Cary Tennis Park Court Renovations
E.	872,500	Cary Tennis Park Improvements - Interlocal (Covered Courts and Clubhouse)
F.	150,000	DT - Downtown Park - Future Phases Master Plan
G.	150,000	Dunham Park Improvements
H.	100,000	Greenway Pedestrian Structure Repair
I.	250,000	Greenway Resurfacing Projects
J.	500,000	P-006 Neighborhood Park
K.	850,000	P-010 Neighborhood Park
L.	270,000	Park and Greenway Renovations
M.	75,000	Park, Greenway and Facility Sign Plan
N.	83,000	Playground Surface Repairs/Replacement
O.	35,000	Public Art - Black Creek Greenway
P.	10,000	Public Art - P-006 Neighborhood Park
Q.	10,000	Public Art- P-010 Neighborhood Park
R.	20,000	Public Art - Park and Greenway Amenities
S.	72,000	Tennis Court Renovations
T.	<u>550,000</u>	Thomas Brooks Park Field Drainage
	<u>8,820,500</u>	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2018 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Annie Jones Park Tennis Court Renovations

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$50,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

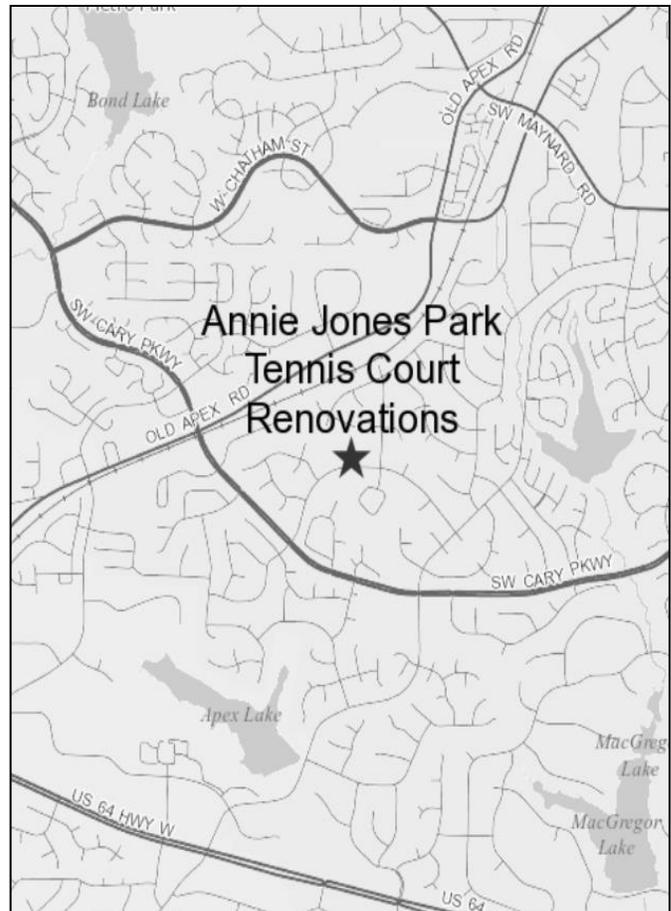
This project provides for the replacement of the six tennis courts located at Annie Jones Park. Total project cost is estimated at \$650,000. The \$50,000 FY 2018 appropriation supports design while the \$600,000 FY 2020 funding need would provide for construction of all six courts.

PROJECT JUSTIFICATION:

These courts are currently more than 25 years old and are heavily used for open play and as a tournament site for some Town hosted events.

The Annie Jones Park tennis courts have experienced significant cracking over the past few years and routinely crack again after repair. The Town's Public Works department has evaluated the courts and recommends not only replacing all six courts but also redesigning the layout of the courts to better meet ADA requirements and current tennis court standards.

PROJECT LOCATION:



B. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Athletic Field Bleacher Replacements

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$48,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

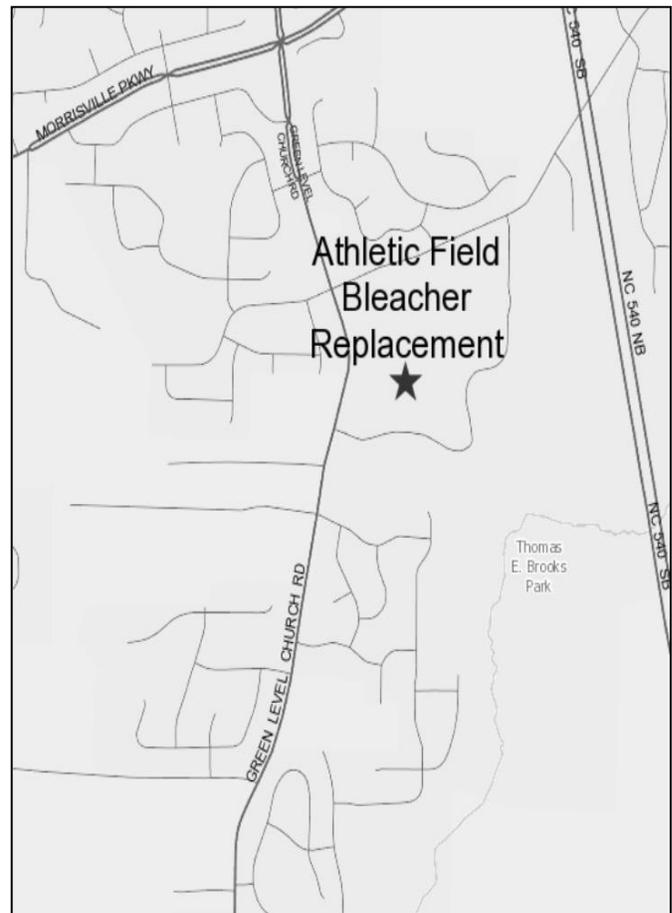
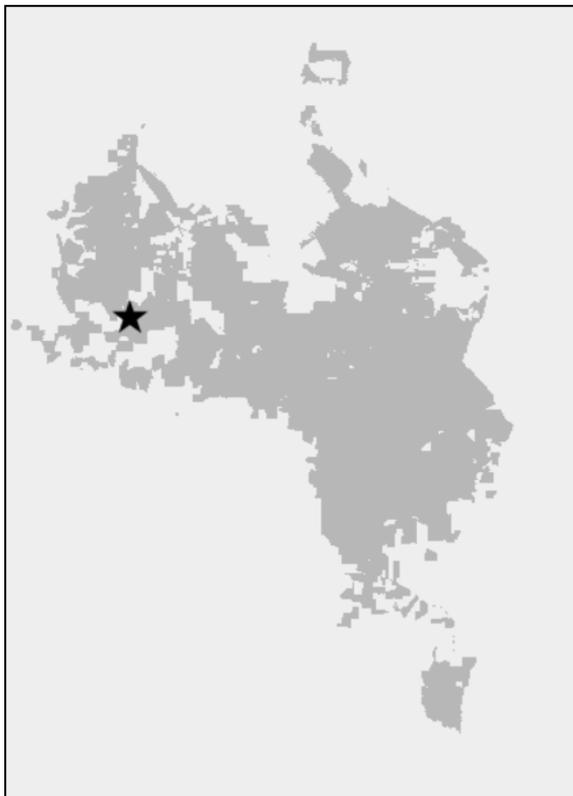
PROJECT DESCRIPTION:

The \$48,000 FY 2018 appropriation provides for athletic field bleacher repairs and/or replacements for fields 1 – 4 (Phase I) at Thomas Brooks Park.

PROJECT JUSTIFICATION:

Bleacher systems at all Town athletic fields are considered for replacement on 10 year intervals due to their susceptibility to deterioration from weather and extensive use. As a unit comes into the replacement window, it undergoes a structural integrity assessment to determine whether repair, partial replacement, full replacement or delay is warranted.

PROJECT LOCATION:



C. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Black Creek Greenway Renovations – Phases I, II and V

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$4,275,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

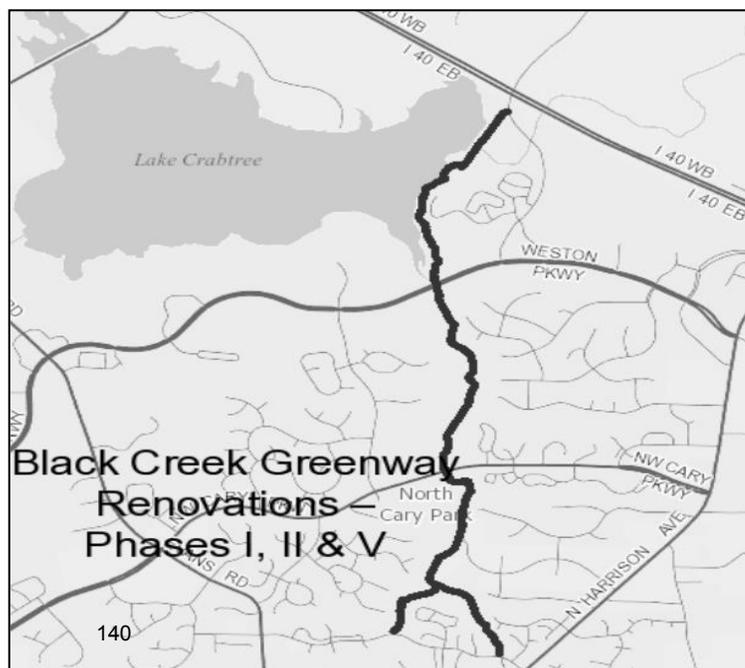
Appropriations to date to this project total \$375,000 and support design of Phases I, II and V of the Black Creek Greenway realignment. Total project cost (including design and construction of all three phases) is \$6,650,000, which includes the \$4,275,000 FY 2018 appropriation for Phases I and V construction, and a \$2,000,000 FY 2021 funding need for Phase II construction. \$2,625,000 of the FY 2018 appropriation is supported by Locally Administered Projects Program (LAPP) grant funding with Town dollars addressing the remaining \$1,650,000 of matching and additional funds.

The Phases I and II portions of this project focus on the renovation of approximately 2.5 miles of the Black Creek Greenway running between Lake Crabtree County Park and West Dynasty Drive. The Phase V portion of the project would develop the Black Creek Greenway into a continuous greenway without the need to utilize the steep sidewalks adjacent to West Dynasty Drive. This section of greenway trail would be approximately 1,300 linear feet and include four pedestrian bridges and a large retaining wall to meet grade at West Dynasty Drive.

PROJECT JUSTIFICATION:

The Black Creek Greenway is the most popular, and primary, trail of Cary's greenway system. It is approximately seven miles in length and connects Lake Crabtree County Park to Bond Park, the hub of Cary's greenway system. Phases I and II are currently in need of realignment due to the effects of flooding. The Phase V segment of the project will eliminate an extremely steep 0.4 mile sidewalk connection between Phases II & III of the existing trail. The construction of Phase V will make the Black Creek Greenway more accessible and enjoyable to a wider segment of the population by providing a continuous greenway trail that maintains a manageable slope for bicyclists and the general population.

PROJECT LOCATION:



D. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Cary Tennis Park Court Renovations

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$450,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for renovation (including subsurface improvements and resurfacing) of courts located at the Cary Tennis Park. Condition assessments have been conducted both by the United States Tennis Association (USTA) and an outside consultant to determine the most appropriate method of repair/renovation for each court.

Total project cost is estimated at \$3,135,000, of which \$925,000 has been appropriated through FY 2016 for the renovation of courts 3 - 10. This work was completed in fall 2015, and these renovated courts are open for play. The \$275,000 FY 2017 appropriation provided for lighting and scoreboard improvements needed for the courts where professional tennis court matches are played. An additional \$1,935,000 funding need (\$450,000 in FY 2018 and \$1,485,000 in FY2021) supports construction funding for six additional courts at this facility. The remaining 12 courts at the facility would also benefit from renovation but are currently categorized as Not Programmed/Not Planned projects due to their significant additional cost. Renovating these remaining courts would require \$1,500,000 in FY 2018 for six courts and \$1,500,000 in FY 2021 for the final six courts

PROJECT JUSTIFICATION:

The addition of court lighting and scoreboard improvements will greatly enhance the facility's ability to address amenity requirements for professional and tournament play.

PROJECT LOCATION:



E. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Cary Tennis Park – Interlocal
(Covered Courts and Clubhouse)

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$872,500

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$53,978
Operating & Maintenance	\$109,592
<u>Total</u>	<u>\$163,570</u>

PROJECT DESCRIPTION:

This project provides for the design and construction of improvements at the Cary Tennis Park that are supported, in part, by interlocal funding provided by Wake County. These improvements include: the addition of seven covered tennis courts, the purchase and installation of LED court lighting inside the covered facility, the installation of two bathrooms, the installation of gas piping from the gas meter to the building and club house improvements.

Total project cost is estimated at \$7,380,500. A total of \$6,508,000 has been appropriated to this project through FY 2017 for design and construction of seven covered courts with LED court lighting and one restroom facility. The \$872,500 FY 2018 appropriation provides design and construction funding for additional improvements to the Cary Tennis Park club house. Club house improvements will address needed structural repairs to the existing building, as well as expand the facility’s operations space. Improvements being considered include office, locker room and meeting room expansion as well as public space remodeling.

PROJECT JUSTIFICATION:

The number of visits to the Cary Tennis Park (CTP) increased from 15,000 visitors in FY 2004 to 240,000 in FY 2015. These visits are driven in part by the more than 400 adult league teams playing at the CTP along with the facility’s Academy elite training program which has over 100 participants. In addition to these groups, the venue hosts regional state and national tournaments which can involve up to 600 competitors and teams from across the country.

Inclement weather makes supporting regular and tournament play at the facility extremely difficult as games cannot continue in adverse conditions. Covered courts will allow play to proceed during rain events and help the facility maintain its schedule. The CTP club house was constructed in 2003 and has not been remodeled or expanded. The improvements being considered will allow the facility to better accommodate the needs of CTP patrons for meeting space, additional showers/locker space and enhanced retail options.

PROJECT LOCATION:



F. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: DT – Downtown Park – Future Phases Master Plan

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None associated with development of a master plan

PROJECT DESCRIPTION:

This project provides funds for the development of a master plan for the remainder of the Downtown Park site. Planning and programming of this portion of the property was considered a future year opportunity when the rest of the park site was planned in 2013. As was the case with the 2013 planning process, a consulting team will lead the planning efforts in conjunction with staff participation and public input.

Total master planning costs are estimated at \$250,000. The FY 2017 budget appropriated \$100,000 to initiate the future phases master planning process. The \$150,000 FY 2018 appropriation provides for the completion of this work. Future year funding requests will be made for design and construction once a programming scope has been selected.

PROJECT JUSTIFICATION:

The master planning process will provide programming and cost options for the development of the remaining Downtown Park land. Completing this process allows a programming scope to be selected and the development plan to be determined.

PROJECT LOCATION:



G. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Dunham Park Improvements

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for a variety of improvements at Dunham Park. Total project cost is estimated at \$1,650,000. The \$150,000 FY 2018 appropriation funds design work associated with replacing all five of Dunham Park's asphalt tennis courts as well as re-configuring court layout to determine if a sixth court could be added. A \$900,000 funding need identified in FY 2020 would provide for construction of all five courts as well as a sixth if space allows. An additional \$600,000 in FY 2024 would support design and construction of a quarter-mile loop trail and the addition of lighting to the facility's existing basketball courts.

PROJECT JUSTIFICATION:

The Dunham Park tennis courts have experienced significant cracking over the past few years and routinely crack again after repair. The Town's Public Works department has evaluated the courts and recommends not only replacing all five courts but also redesigning the layout of the courts so that a sixth court could possibly be added to address continued demand for court space. The addition of a quarter-mile loop trail and basketball court lighting would provide this established facility with amenities found in the Town's newer neighborhood parks.

PROJECT LOCATION:



H. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Greenway Pedestrian Structure Repair

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for design and major repairs to approximately 150 pedestrian structures (including pedestrian bridge, boardwalks, tunnels and overlooks) within the Town's park and greenway system. Each year, one-third of the structures are inspected, cataloged and rated in order to produce a report identifying needed repairs. While the Town of Cary's Public Works Department completes basic maintenance, this project provides for major repairs that are better addressed by specialized contractors.

PROJECT JUSTIFICATION:

A scheduled, routine maintenance program such as this is an effective means of ensuring structure safety and preventing more significant and/or costly future repairs.

PROJECT LOCATION:

Repairs will occur throughout the greenway system based on a condition assessment and prioritization of the Town's pedestrian structures.

I. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Greenway Resurfacing

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This routine maintenance project provides for repair and restoration of greenways throughout the town. Greenways are selected for resurfacing based on a priority ranking system that takes facility age and usage into account. The \$250,000 FY 2018 appropriation funds repair and restoration of the following greenways:

- Middle Creek Loop Trail – 0.5 miles \$75,000
- Black Creek Greenway (Castalia to Oxxford Hunt) – 0.5 miles \$100,000
- White Oak Creek Greenway (from the base of the dam to Cary Parkway) – 0.5 miles \$75,000

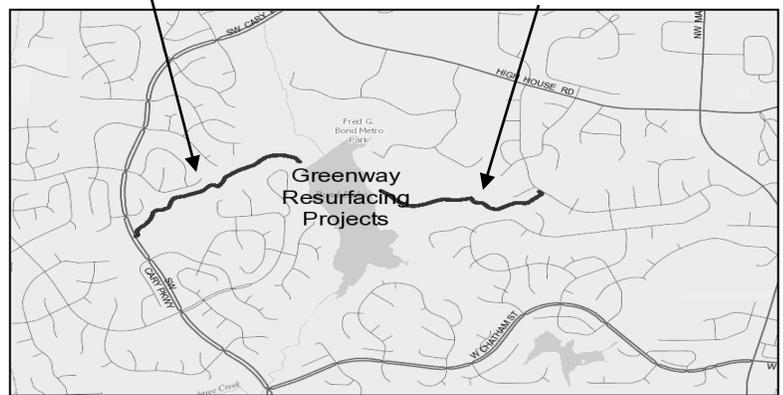
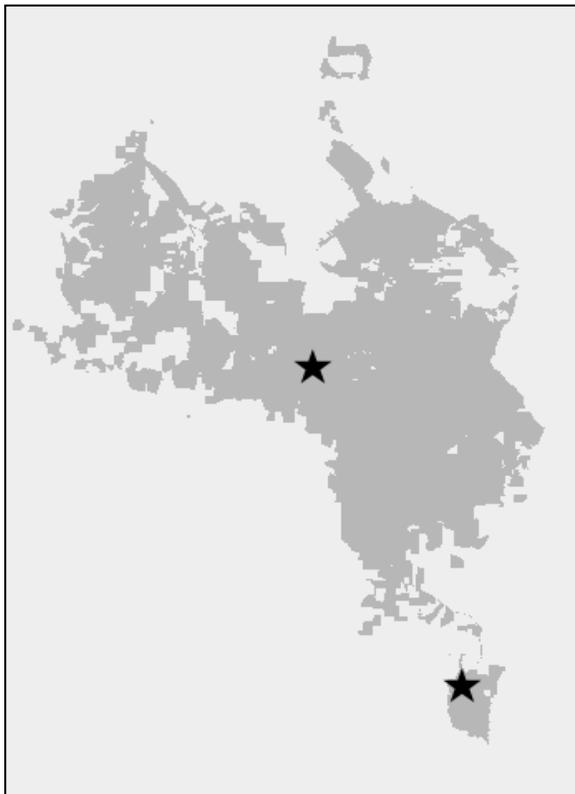
PROJECT JUSTIFICATION:

Greenway trails most frequently experience asphalt failure as a result of being located in wet environments and/or adjacent to trees whose root systems cause lifting and cracking. Application of a new surface coating provides additional protection and promotes extended life of the greenways.

PROJECT LOCATION:

White Oak Creek Greenway

Black Creek Greenway



Middle Creek Loop Trail



J. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: P-006 Neighborhood Park

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$20,000
Operating & Maintenance	\$60,000
Total	\$80,000

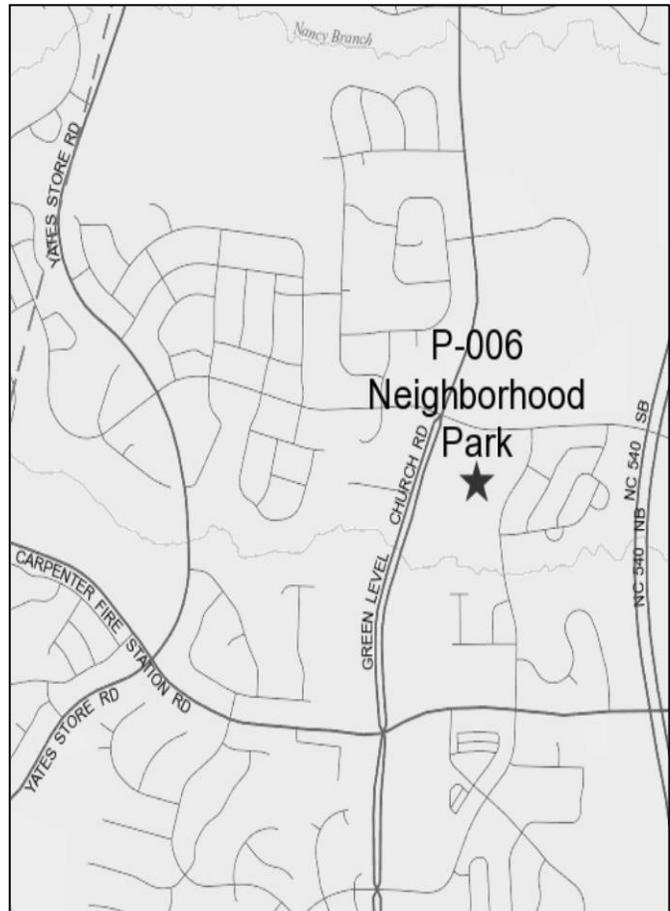
PROJECT DESCRIPTION:

This project provides for design and construction of a new neighborhood park (P-006) located at Green Level Church Road and McCrimmon Parkway. The Morris Branch Greenway will cross the property allowing the site to function as a trailhead. Total project cost is estimated at \$4,600,000. A total of \$100,000 has been appropriated to date for the completion of a master plan. The \$500,000 FY 2018 appropriation supports design, while another \$4,000,000 would be required in FY 2020 for construction.

PROJECT JUSTIFICATION:

This neighborhood park will be located in northwestern Cary which has experienced significant growth in the past decade.

PROJECT LOCATION:



K. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: P-010 Neighborhood Park

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$850,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$20,000
Operating & Maintenance	\$60,000
Total	\$80,000

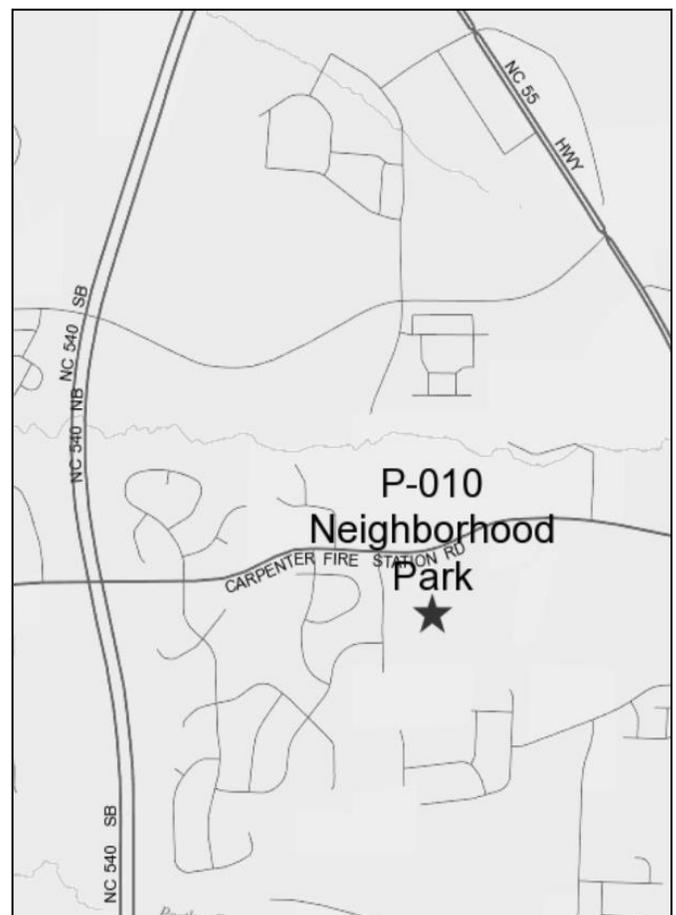
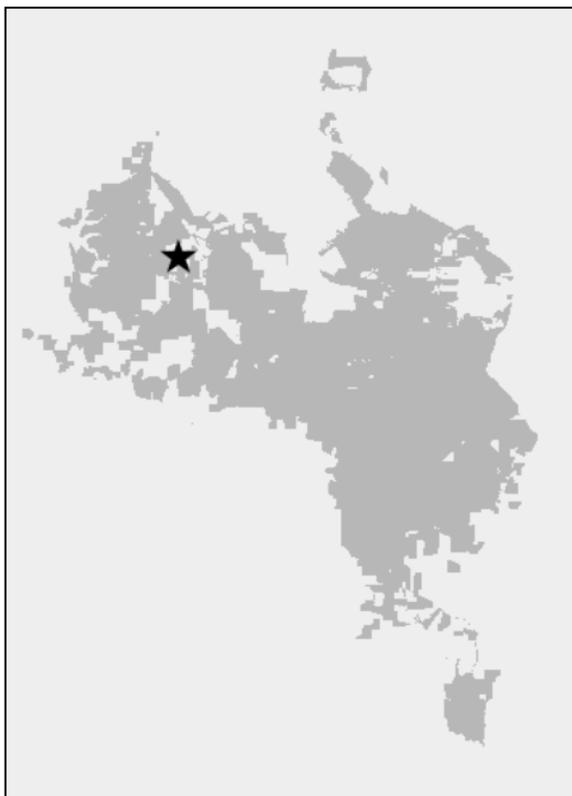
PROJECT DESCRIPTION:

This project provides for design and construction of a new neighborhood park (P-010) located at Carpenter Fire Station Road and Highcroft Drive. The extension of the Panther Creek Greenway into the park as another means of access for park patrons is also included. Total project cost is estimated at \$6,150,000. The \$850,000 FY 2018 appropriation supports master plan development and design. An additional \$5,300,000 would be required in FY 2020 for construction.

PROJECT JUSTIFICATION:

This neighborhood park will be located in northwestern Cary which has experienced significant growth in the past decade.

PROJECT LOCATION:



L. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Park and Greenway Renovations

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$270,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$2,500
<u>Operating & Maintenance</u>	<u>\$2,500</u>
Total	\$5,000

PROJECT DESCRIPTION:

This maintenance project provides park, greenway and related facility renovations throughout the town. Specific facilities are selected for renovation based on a priority ranking system. Each facility is evaluated as it comes up on the scheduled rotation, and renovation is pursued if this assessment verifies that the timing is appropriate based on the facility’s current state.

The \$270,000 appropriated in FY 2018 supports the following park, greenway and/or related facility renovations:

Town of Cary Ball Fields - \$35,000

Two bullpen/batting cages at existing fields that are yet to be determined

Cary Arts Center - \$10,000

Art Wall lighting solution that replaces the existing LED interior lighting with an option that provides a more viable long term maintenance solution.

Davis Drive Elementary Gym \$125,000

Improvements that better meet increased facility demand including a divider curtain, boundary lines, spectator seating, volleyball equipment and storage

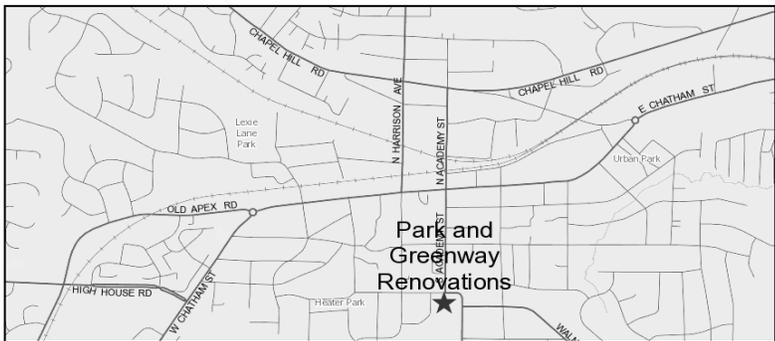
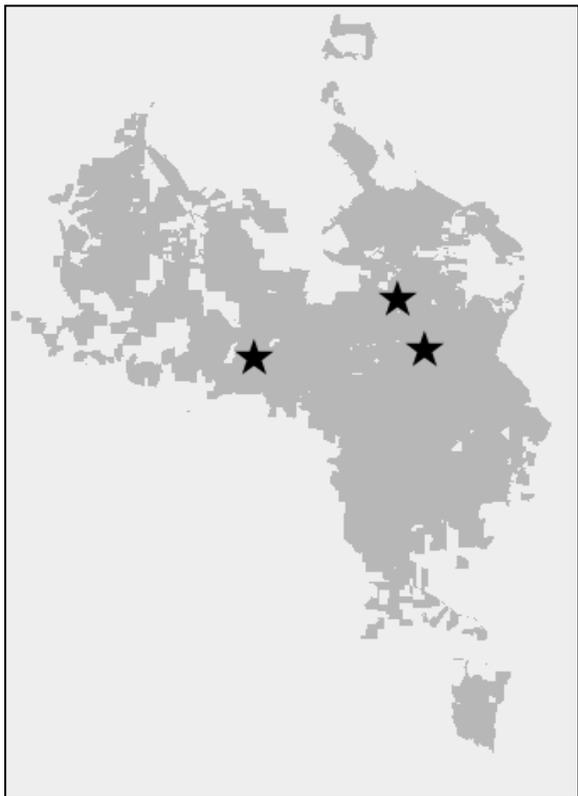
Skate Cary – \$100,000

Ramp replacement and development of a mountain bike skills course

PROJECT JUSTIFICATION:

As the Town’s existing parks, greenways and related facilities age, renovations and upgrades become necessary. Old signage may need replacement, new site amenities such as benches and trash receptacles may be necessary, and stone walkways may need to be replaced with concrete, asphalt or other hard surfaces for improved access and ease of maintenance. Relatively new parks, greenways and related facilities sometimes have needs, such as benches and fencing, that become apparent only after the facility has been in use for a time.

PROJECT LOCATION:



Davis Drive Elementary Gym



Skate Cary



M. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Park, Greenway and Facility Sign Plan Implementation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$75,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$1,000
<hr/>	<hr/>
Total	\$1,000

PROJECT DESCRIPTION:

This project provides for the installation of a unified signage system identifying each of the Town's parks, greenways and cultural and recreational facilities. Greenway signage will include identifiable markings for emergency service access. Total project cost is estimated at \$705,000, of which \$370,000 has been appropriated through FY 2017. The \$75,000 appropriated in FY 2018 provides for park signage updates at many of the Town's older parks. Future year funding totaling \$260,000 over fiscal years 2019 – 2028 will support additional installation of directional, programming, accessibility, trail marking, mileage and interpretive signage within the Town's parks and greenways.

PROJECT JUSTIFICATION:

The primary purpose of the Park, Greenway and Facility Sign Plan Implementation project is to replace existing, aging park system signs with a unified, consistent system of signs for all of the Town's parks, greenways and special use facilities. The new signage will address identification and emergency services needs while providing location, accessibility, user regulations, and educational information to park and greenway system patrons.

PROJECT LOCATION:

This project will occur at various locations throughout the Town's park, greenway and facility system.

N. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Playground Surface Repairs/Replacement

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$83,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This maintenance project provides for the repair or replacement of rubberized playground surfaces in the Town's park system. Playground surfaces are selected for repair or replacement based on a priority ranking system that takes scheduled park renovations and equipment replacements into account. The \$83,000 appropriated in FY 2018 supports playground surface repairs/replacement at:

- Walnut Street Park
- Urban Park
- Lexie Lane Park
- Ritter Park

PROJECT JUSTIFICATION:

Specific playgrounds are selected for surface repairs/replacement based on a priority ranking system. Each facility is evaluated as it comes up on the scheduled rotation, and repair/replacement is pursued if this assessment verifies that the timing is appropriate based on the facility's current state.

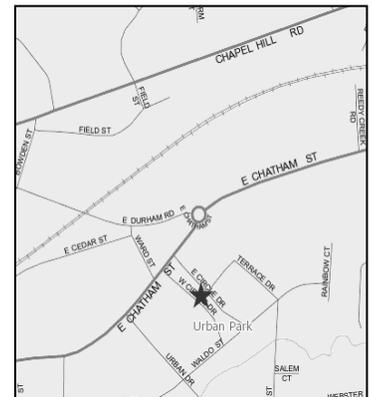
PROJECT LOCATION:



Lexie Lane Park



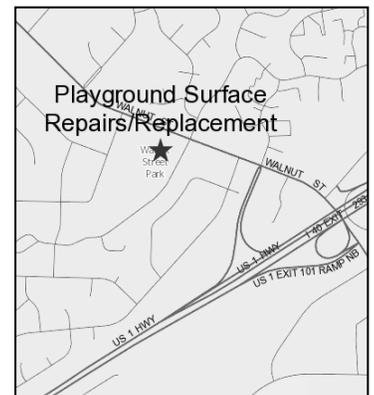
Urban Park



Ritter Park



Walnut Street Park



O. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – Black Creek Greenway

RESPONSIBLE DEPARTMENT: Parks, Recreation and Cultural Resources

PROJECT FUNDING: \$35,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$1,500
Total	\$1,500

PROJECT DESCRIPTION:

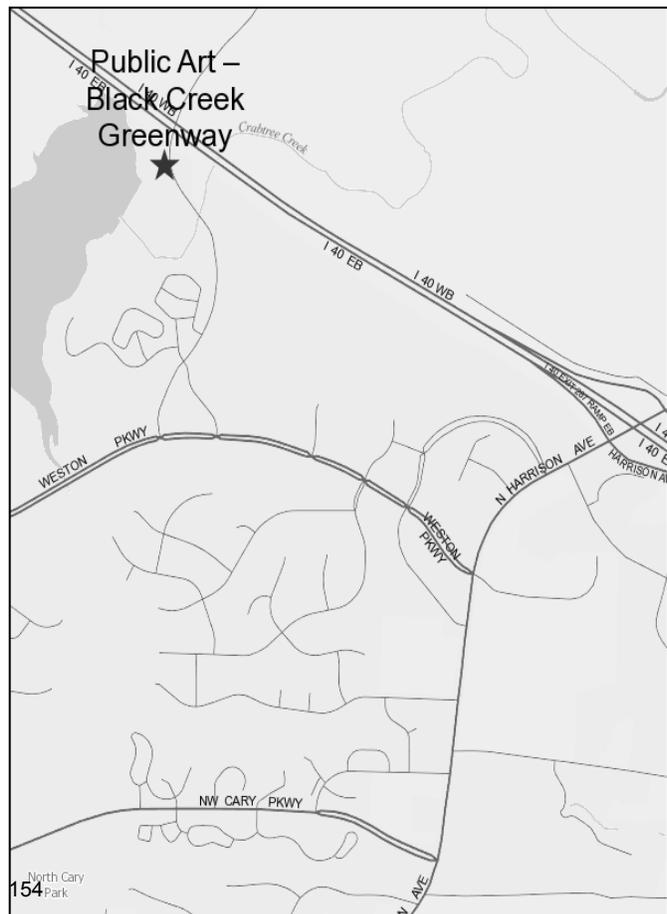
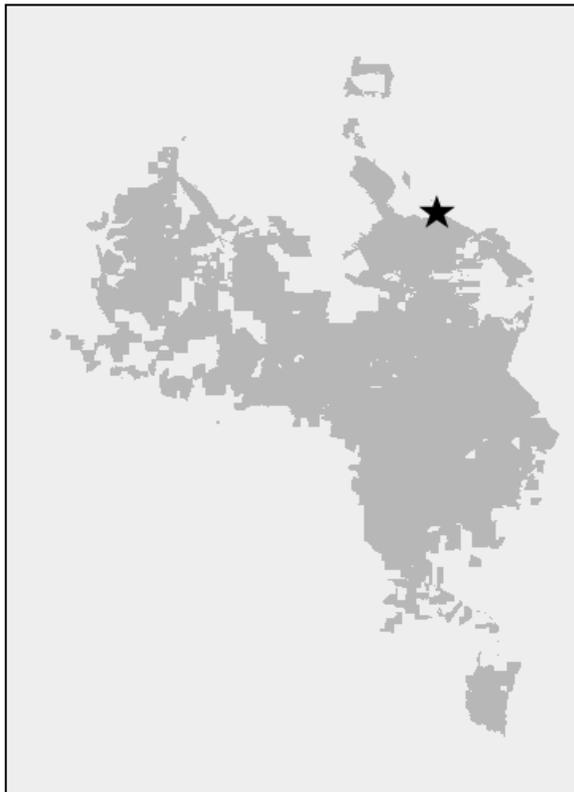
This project provides for design and installation of two functional public art elements along high visibility segments of the Black Creek Greenway that are being renovated as part of the FY 2018 capital budget. Brick public artworks by artist Brad Spencer have given the Black Creek Greenway a unique identity. “Arts Alfresco” is a series of brick sculptural and functional installations along the greenway highlighting the arts and practice of art making. Four installations have occurred to date at strategic high visibility links along the Black Creek Greenway.

The \$35,000 FY 2018 appropriation fully funds design, fabrication and installation of these artworks.

PROJECT JUSTIFICATION:

The trail improvements funded as part of the FY 2018 budget provide an opportunity to extend this visual arts theme along the oldest sections of the trail.

PROJECT LOCATION:



P. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – P-006 Neighborhood Park

RESPONSIBLE DEPARTMENT: Parks, Recreation and Cultural Resources

PROJECT FUNDING: \$10,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$500
Total	\$500

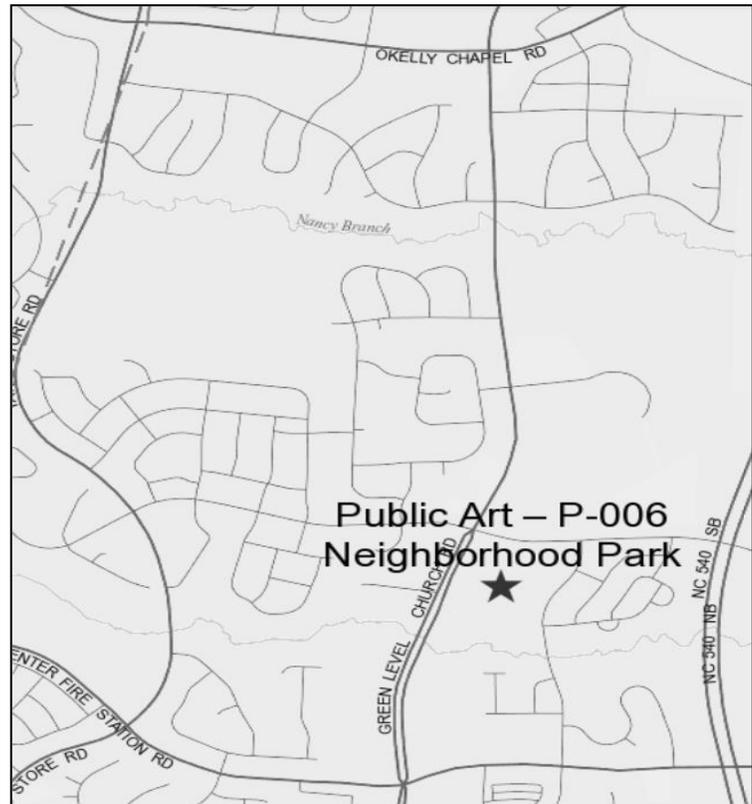
PROJECT DESCRIPTION:

This project provides for the incorporation of public art in the new P-006 neighborhood park. The P-006 neighborhood park is located on the southeast corner of Green Level Church Road, McCrimmon Parkway and Cary Glen Boulevard. Total project cost is estimated at \$76,000. The \$10,000 FY 2018 appropriation supports a public art master plan for the site. An additional \$10,000 funding need in FY 2019 would fund actual design of the art, while \$56,000 would be required in FY 2020 for fabrication and installation of the art.

PROJECT JUSTIFICATION:

The incorporation of public art into capital projects at the earliest stages of planning and design creates opportunities for efficiencies of costs, materials, and functional artwork such as equipment, benches, playground equipment and safety surfacing, shelters, retaining wall surfaces, paving, gates and fences, and other functional park amenities.

PROJECT LOCATION:



Q. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – P-010 Neighborhood Park

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$10,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$1,500
Total	\$1,500

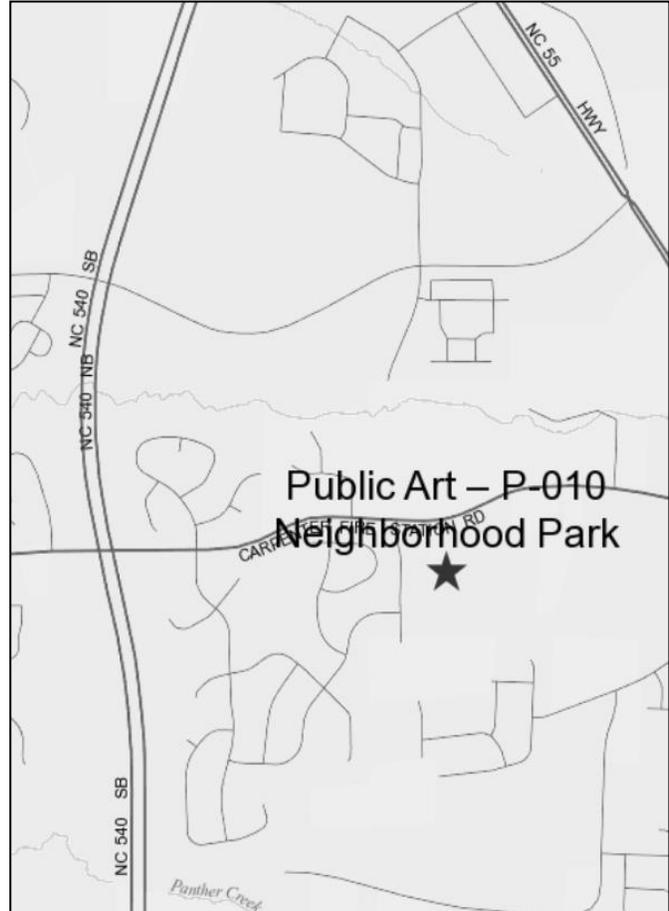
PROJECT DESCRIPTION:

This project provides for the incorporation of public art in the new P-010 neighborhood park. The P-010 neighborhood park is located on the south side of Carpenter Fire Station Road and Highcroft Drive. Total project cost is estimated at \$60,000. The \$10,000 FY 2018 appropriation supports design, while \$50,000 would be required in FY 2020 for fabrication and installation of the art.

PROJECT JUSTIFICATION:

The incorporation of public art into capital projects at the earliest stages of planning and design creates opportunities for efficiencies of costs, materials, and functional artwork such as equipment, benches, playground equipment and safety surfacing, shelters, retaining wall surfaces, paving, gates and fences, and other functional park amenities.

PROJECT LOCATION:



R. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Public Art – Parks and Greenway Amenities

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$20,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$1,500
<hr/>	
Total	\$1,500

PROJECT DESCRIPTION:

This project provides funding to engage the services of artists to create unique standard park amenities. Park amenities could include park benches, water fountains, safety surfaces under playground equipment, bike racks, decorative down spouts for picnic structures and surface embellishments for paving or low seat walls. The project will identify two to five projects where renovations or improvements at parks are planned and artist-made fixtures could be an asset to the project. Parks that are older and located within the Maynard Loop will be first priority for this type of art. The FY 2018 \$20,000 appropriation supports the development of functional public art park amenities at somewhere between two and five yet to be determined parks.

PROJECT JUSTIFICATION:

This project targets parks located in some of Cary’s oldest neighborhoods and extends the public art experience into those facilities.

PROJECT LOCATION:

This project will occur at various parks primarily within Cary’s Maynard Road loop.

S. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Tennis Court Renovations

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$72,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

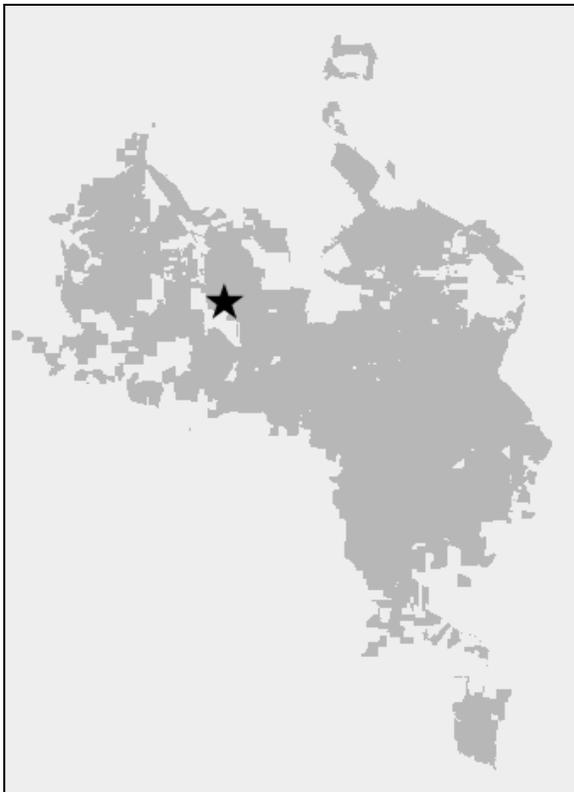
This maintenance project provides for tennis court renovations within the Town's park system. The \$72,000 appropriated in FY 2018 supports the following court renovations:

Cary Tennis Park – 10 courts

PROJECT JUSTIFICATION:

Courts are selected for renovation based on a priority ranking system. The Town's tennis courts are evaluated as they come up on the scheduled rotation, and renovation is pursued if this assessment verifies that the timing is appropriate based on the court's current state.

PROJECT LOCATION:



T. PARKS, RECREATION AND CULTURAL RESOURCES

PROJECT TITLE: Thomas Brooks Park Field Drainage

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$550,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

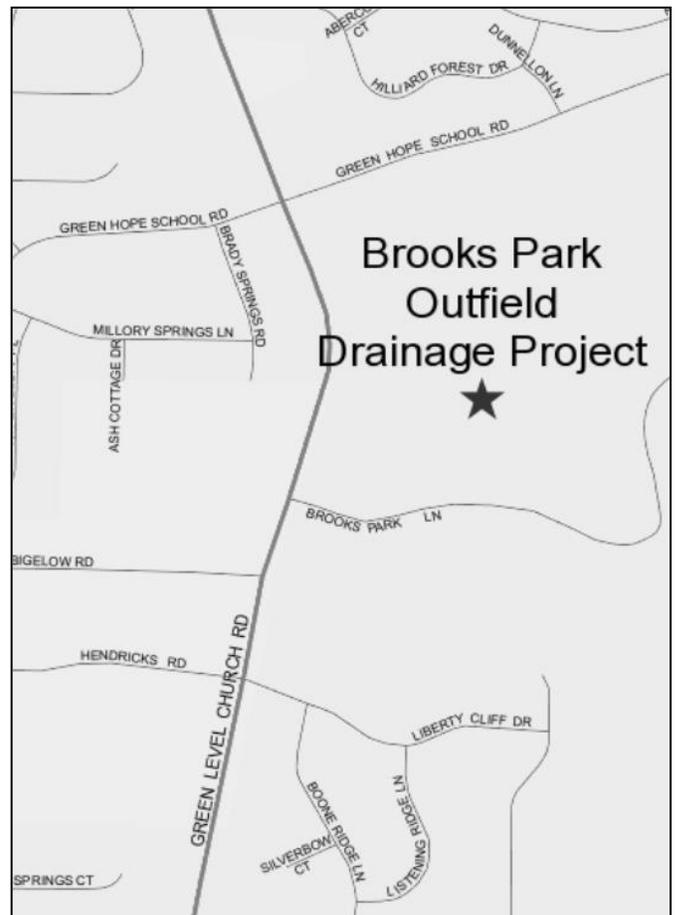
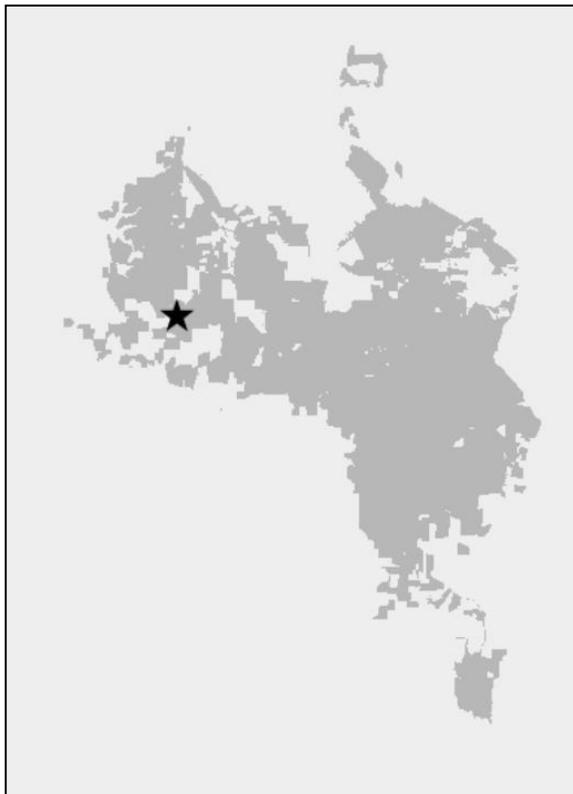
PROJECT DESCRIPTION:

This project provides for design and construction of drainage system improvements at Thomas Brooks Park to increase the usability of the facility's four recreational-play softball fields. The \$550,000 FY 2018 appropriation funds these drainage improvements.

PROJECT JUSTIFICATION:

The recreational-play softball fields at Thomas Brooks Park were constructed in 2000. Since installation, there have been on-going drainage issues which frequently limit play and impact tournaments. Improving the drainage will increase the usability of these fields.

PROJECT LOCATION:



FISCAL YEAR 2018 GENERAL CAPITAL IMPROVEMENTS

GENERAL GOVERNMENT CAPITAL IMPROVEMENTS FUND

A.	335,350	ADA Improvements at Town Hall
B.	100,000	AH - Downtown Rehabilitation and Façade Improvement Program
C.	300,000	AH - Owner Occupied Housing Rehabilitation Program
D.	225,000	Application Software Replacement - CLASS and FASTER
E.	27,300	Conference Room Technology Upgrades
F.	110,000	Electric Vehicle Charging Station for Library Parking Deck
G.	70,000	Facility Painting - Interior and Exterior
H.	1,600,000	Garmon Operations Center - Facility Improvements - Phase II
I.	600,000	Heavy Equipment Replacement
J.	21,000	Historic Preservation Implementation Activities
K.	1,000,000	Historic Town Facility Preservation
L.	120,000	HVAC Replacements and Major Maintenance
M.	101,000	Parking Lot Resurfacing
N.	100,000	Relamping Town Facilities
O.	770,000	Roof Assessment and Rehabilitation Program
P.	150,000	Sand/Salt Storage Structure
Q.	945,000	Sanitation and Recycling Truck Replacement
R.	250,000	Storm Drainage - Private Assistance
S.	300,000	Storm Drainage - Town Properties
T.	500,000	Stormwater Condition Assessment and Rehabilitation Program
U.	300,000	Town Hall Pedestrian Bridge
V.	<u>30,000</u>	Upgrade Pedestrian Crossings - Relocation of Push Buttons
	<u>7,954,650</u>	Total

In the following individual project description pages, the estimated personnel, operating and maintenance impacts are provided to show a more comprehensive view of each project. Some projects will be completed mid-year; the impact shown is for the first full year after the project is complete. Any impact that begins after FY 2018 has been adjusted for inflation in the outer years.

Inflation is conservatively factored in at 5% per year. Some projects do not show annual impacts although there may be minor maintenance investments at various intervals after project completion.

A. GENERAL GOVERNMENT

PROJECT TITLE: ADA Improvements at Town Facilities

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$335,350

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for accessibility modifications and improvements to Town facilities as outlined in the Town's ADA Transition Plan. Total estimated project cost is \$11.7 million, which includes design, construction and contingency funding. The \$335,350 FY 2018 appropriation represents initial funding needed to begin corrective measures. The remaining years of the CIB/P note funding needs to methodically work through the ADA Transition Plan.

PROJECT JUSTIFICATION:

This project originated from the completion of the Town's ADA Transition Plan that is a federal requirement for all state and local governments. The ADA Transition Plan identifies, prioritizes, schedules, and budgets the removal of accessible barriers that restrict access to Town supported programs and services. Over 120,000 accessible features were surveyed at 70 Town facilities and approximately 12,000 barriers were identified. Examples of the accessible barrier removal work include remounting existing bathroom accessories per building code compliance, repairing/replacing sidewalks sections, and re-grading disabled parking spaces.

PROJECT LOCATION:

This project will occur in various locations as needed.

B. GENERAL GOVERNMENT

PROJECT TITLE: Affordable Housing – Downtown Rehabilitation and Façade Improvement Program

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This program provides financial assistance in the form of matching loans to property owners and businesses located within the Town Center Area to enhance the appearance, function, safety and aesthetics of the façades of downtown properties. Deferred loans of up to \$10,000 are provided per business front. Corner lots with significant or double façade exposure may qualify for an additional \$5,000.

The deferred loan is provided in the form of a reimbursement of eligible costs incurred and is paid utilizing a construction draw process once the improvements have been completed, inspected and approved. The deferred loan is in effect for a minimum of three years. The principal and interest on the loan will be deferred each of the three years. Should the structure be changed or rebuilt during that three year period, the prorated portion of the deferred loan is paid back to the Town.

If no changes are made, the loan is forgiven at the end of the three year period. Only certain types of improvements that meet the objectives of the program are eligible for funding. General maintenance items that do not improve the appearance of the business are not eligible.

PROJECT JUSTIFICATION:

The downtown rehabilitation and façade improvement program is one of several incentives provided to small businesses in downtown Cary to stimulate private investment in the downtown area.

PROJECT LOCATION:

This project will occur in various locations as needed.

C. GENERAL GOVERNMENT

PROJECT TITLE: Affordable Housing – Owner-Occupied Housing Rehabilitation Program

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This program provides financial assistance to lower-income homeowners to maintain, repair or otherwise rehabilitate their single-family homes. The Town's rehabilitation program concentrates on owner-occupied homes in need of repair to meet code requirements and to provide a clean and safe living environment for the occupants.

Program funds may be utilized for rehabilitation expenses including construction costs and certain associated costs for preparation of cost estimates, bids and monitoring of work. Priority is given to homes located within the Town Center Area, and to homes owned by seniors, but is available Town-wide to homeowners meeting the program guidelines and income limits.

After consideration of these priorities, applicants are selected on a first-come, first-served basis. Financial assistance is provided in the form of either a deferred payment loan that is forgiven after ten years or, to non-senior homeowners with incomes toward the higher end of the eligible income range, an amortizing loan requiring repayment. Funding generated by repayments to the housing rehabilitation program becomes available for future loans.

PROJECT JUSTIFICATION:

On average, houses need major repairs every 20-30 years (i.e. new roofs, new heating and cooling systems and/or upgrades to plumbing and electrical systems). Because of Cary's rapid growth over the last 30 years, much of Cary's housing stock is of the same age. Over sixty-five percent of Cary's homes are now approaching an age where they are going to need major rehabilitation or repair in the next few years. At the same time, Cary's population is aging and many older Cary residents may be on fixed incomes and unable to make needed home repairs. Without programs such as the Housing Rehabilitation Program, the condition of Cary's housing stock has the potential to significantly decline.

PROJECT LOCATION:

This program is open to owner-occupied housing throughout the Town of Cary that meets the eligibility requirements noted above.

D. GENERAL GOVERNMENT

PROJECT TITLE: Application Software Replacement

RESPONSIBLE DEPARTMENT: Technology Services

PROJECT FUNDING: \$225,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for replacement of the Town's major software platforms on a periodic basis. The \$225,000 FY 2018 appropriation provides remaining funds needed to support replacement of the Parks, Recreation and Cultural Resources management software.

PROJECT JUSTIFICATION:

All software platforms are evaluated annually to assess their efficiency, effectiveness and ability to continue meeting the Town's needs.

PROJECT LOCATION:

The software applications replaced through this project will serve various functions within the Town of Cary as needed.

E. GENERAL GOVERNMENT

PROJECT TITLE: Conference Room Technology Upgrades

RESPONSIBLE DEPARTMENT: Technology Services

PROJECT FUNDING: \$27,300

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the installation of various technology solutions in conference rooms that are most often used by staff to conduct internal and external meetings, presentations, audio/visual conferences and educational programming. Project cost is estimated at \$215,400. The \$188,100 appropriated through FY 2017 supports the first two phases of upgrades. The \$27,300 FY 2018 appropriation provides remaining funds needed for Phase II completion.

PROJECT JUSTIFICATION:

In some cases, there is no technology present in existing conference rooms. In others, the existing technology includes an overhead projector with a pull down screen, portable speakers and/or a speaker phone. Adding or updating new technology will better facilitate participation in webinars and distance learning opportunities, training classes and meetings. The use of these technologies also gives staff on-site access to training and meeting events that might otherwise not be available.

PROJECT LOCATION:

These upgrades will occur at various Town facilities as needed.

F. GENERAL GOVERNMENT

PROJECT TITLE: Electric Vehicle Charging Station for Library Parking Deck

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$110,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	-
Operating & Maintenance	\$8,120
Total	\$8,120

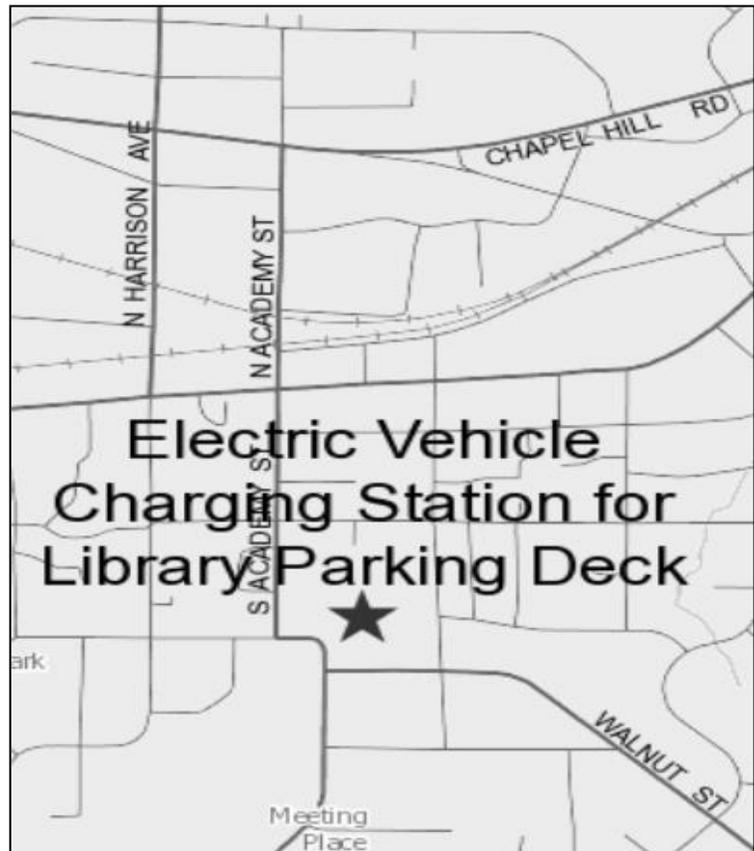
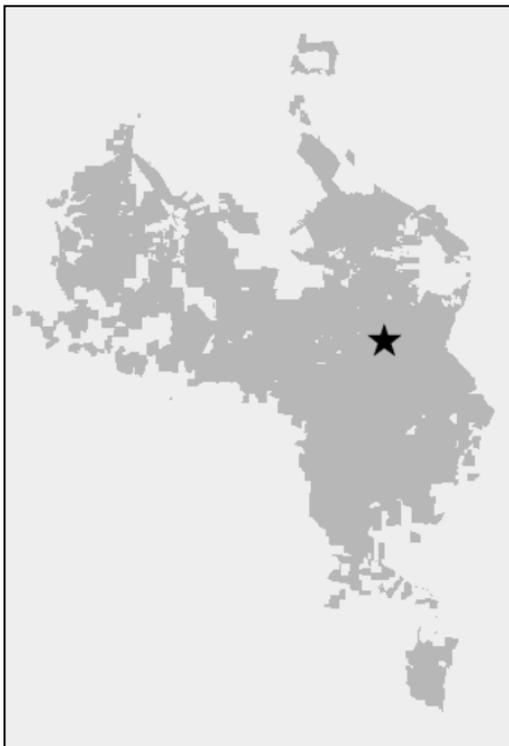
PROJECT DESCRIPTION:

This project provides for the installation of up to six dual-port wall mounted electric vehicle charging stations in the downtown library parking deck. The \$110,000 FY 2018 appropriation fully funds this project.

PROJECT JUSTIFICATION:

The parking deck, which is currently in design, will serve the downtown area, including the library, performance spaces, and future anticipated private development. Providing electric vehicle charging will address the changing needs of those who visit Downtown Cary and reinforce that downtown is modern and high tech. With more all-electric or hybrid-electric options coming onto the market every year, it is very likely more citizens and visitors will look for convenient parking that will enable them to charge while they park.

PROJECT LOCATION:



G. GENERAL GOVERNMENT

PROJECT TITLE: Facility Painting – Interior and Exterior

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$70,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a planned interior and exterior painting program for Town facilities. The \$70,000 appropriated in FY 2018 provides for painting of comfort stations located at Town park facilities.

PROJECT JUSTIFICATION:

Quality care of painted surfaces is an important component of a sound facilities maintenance program. The correct type of paint, properly applied, provides an attractive environment, preserves the useful life of building components and aids in housekeeping. The useful life of painted surfaces varies widely based on how the facility is programmed. Painted surfaces should be evaluated every five years with an expectation of repainting every six to eight years.

PROJECT LOCATION:

This project will occur at various Town facilities as needed.

H. GENERAL GOVERNMENT

PROJECT TITLE: Garmon Operations Center – Facility Improvements – Phase II

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,600,000

FIRST YEAR ESTIMATED OPERATING COSTS:

Personnel	\$5,500
Operating & Maintenance	\$156,000
Total	\$161,500

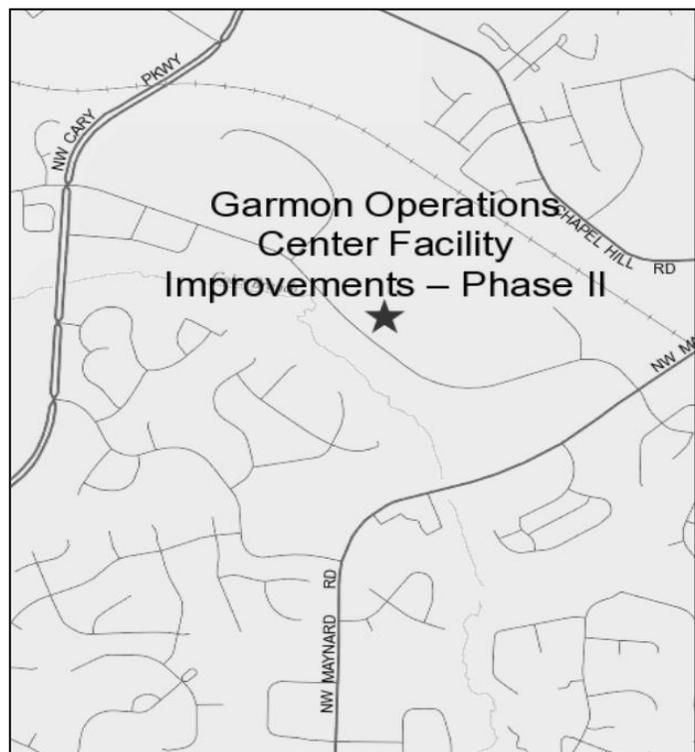
PROJECT DESCRIPTION:

This project provides for improvements to the current Garmon Operations Center located on James Jackson Avenue enabling the facility to better accommodate operations. Site improvements being considered as part of this project include a new large vehicle wash facility, more fleet service vehicle and employee parking and related stormwater management. Total project cost is estimated at \$3,470,000. The \$350,000 appropriated in FY 2017 provides funds for design based upon recommendations of the facility master plan. The \$1,600,000 FY 2018 appropriation supports construction of these site improvements. An additional \$1,520,000 FY 2022 funding need would address design and construction associated with adding additional workspace to better accommodate staff assigned to this facility.

PROJECT JUSTIFICATION:

The Garmon Operations Center serves as the central base for the majority of the Town’s public works and utilities functions. The site improvements addressed through this project will resolve ongoing vehicle care, parking and stormwater management issues at this facility.

PROJECT LOCATION:



I. GENERAL GOVERNMENT

PROJECT TITLE: Heavy Equipment Replacement Project

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$600,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports a "pay-as-you-go" funding strategy that annually sets aside funding necessary for the replacement of heavy equipment. Replacements are identified according to factors such as schedule, useful life expectancy, repair history and condition review.

PROJECT JUSTIFICATION:

The Town's Fleet Management staff evaluates existing heavy equipment annually and recommends replacement for equipment that has met its life expectancy based on years, hours, maintenance and repair.

PROJECT LOCATION:

This project is not affiliated with a specific location.

J. GENERAL GOVERNMENT

PROJECT TITLE: Historic Preservation Implementation Activities

RESPONSIBLE DEPARTMENT: Planning

PROJECT FUNDING: \$21,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project supports several low-cost implementation activities outlined in the Historic Resources Master Plan adopted by Council on May 27, 2010. Total project cost is estimated at \$271,000. The \$21,000 FY 2018 appropriation supports the work program for the Historic Preservation Commission to include nominations of three landmark properties, an ongoing contract with the Capital Area Preservation Trust for technical assistance and the preparation of digital documentation of the Carpenter Historic District. Future year funding needs totaling \$225,000 and ranging from \$10,000 to \$35,000 per year will be used to pursue these and related efforts.

PROJECT JUSTIFICATION:

The Historic Resources Master Plan recommends establishing an incentive program supporting demolition delays and providing preservation incentives for the most significant of the Town's historic structures (buildings constructed prior to 1960).

PROJECT LOCATION:

This project will occur at various locations as the need arises.

K. GENERAL GOVERNMENT

PROJECT TITLE: Historic Town Facility Preservation

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$1,000,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides funds for the implementation of various historic facility preservation activities as identified by a historic preservation study focused on qualifying Town facilities. Examples of work to be pursued by this project include stabilizing historic Town-owned facilities and performing specific improvements as identified in the plan and supported by the Town's Historic Preservation Commission. Any work performed will be in accordance with the Town's Historic Preservation Master Plan adopted on May 27, 2010 and referenced in the Cary Community Plan.

The \$1,000,000 FY 2018 appropriation supports the stabilization and protection of these facilities while the most appropriate purpose and use for each is determined.

PROJECT JUSTIFICATION:

In recent years, the Town has acquired numerous buildings and structures considered to be historic. Each of these facilities requires various levels of preservation improvements to protect them from further deterioration.

PROJECT LOCATION:

This project will occur on various Town-owned historic facilities as identified by the Town Historic Facility Study funded through the FY 2018 operating budget.

L. GENERAL GOVERNMENT

PROJECT TITLE: HVAC Replacements and Major Maintenance

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$120,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for HVAC replacements and major maintenance at Town facilities. The FY 2018 appropriation totaling \$120,000 provides for HVAC replacements and maintenance at the following facilities:

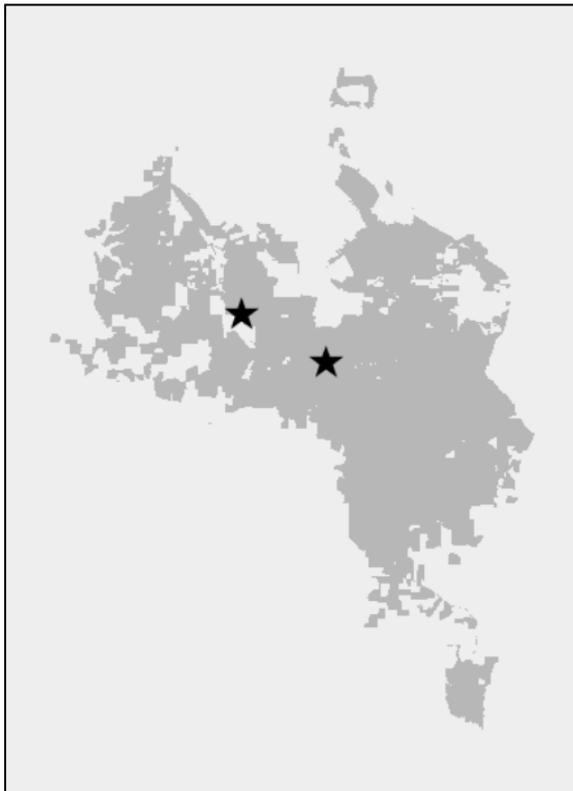
- Bond Park Community Center – Sycamore Gym – A
- Cary Tennis Park (one unit)

PROJECT JUSTIFICATION:

The replacement schedule was created based on useful life estimates for the equipment. As the time of replacement approaches, maintenance history and current performance are considered before determining if the unit may remain in service longer than anticipated or if replacement is indeed warranted. Routine maintenance and scheduled replacement of HVAC equipment is an important component of a well-managed facilities maintenance program. Planning for repairs and maintenance allows for better cost and efficiency management.

PROJECT LOCATION:

Cary Tennis Park



Bond Park Community Center



M. GENERAL GOVERNMENT

PROJECT TITLE: Parking Lot Resurfacing

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$101,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the repair and restoration of Town-owned parking areas. The \$101,000 appropriated in FY 2018 supports the following parking surface renovations:

- Garmon Operations Center
- Sears Farm Road Park

PROJECT JUSTIFICATION:

Restoration of the noted parking areas is needed due to subsurface failures and the effects of aging asphalt. These parking surfaces were selected for repair based on need. A prioritized list indicating degree of need is created annually by Town staff.

PROJECT LOCATION:



Sears Farm Road Park



Garmon Operations Center



N. GENERAL GOVERNMENT

PROJECT TITLE: Relamping Town Facilities

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$100,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the phased conversion of interior and exterior area lighting at Town facilities to LED. Project cost is estimated at \$225,000. The \$125,000 appropriated through FY 2017 supports the first phase of work, while the \$100,000 FY 2018 appropriation funds the second and final phase.

PROJECT JUSTIFICATION:

This conversion will not only provide updated, safer lighting at these facilities, but is also expected to reduce associated energy use at converted locations by 50% or more.

PROJECT LOCATION:

This project will occur at various Town facilities.

O. GENERAL GOVERNMENT

PROJECT TITLE: Roof Assessment and Rehabilitation Program

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$770,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

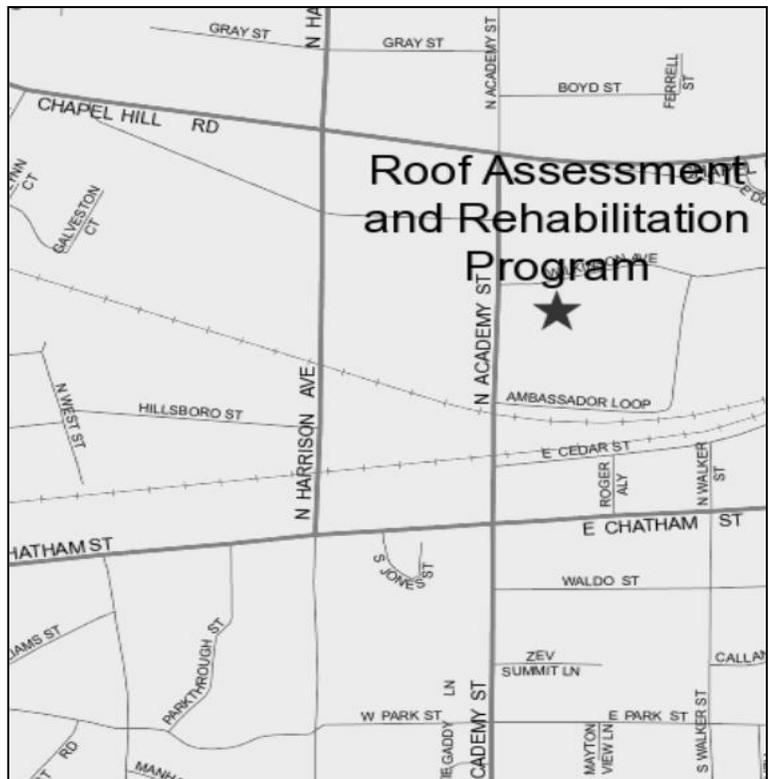
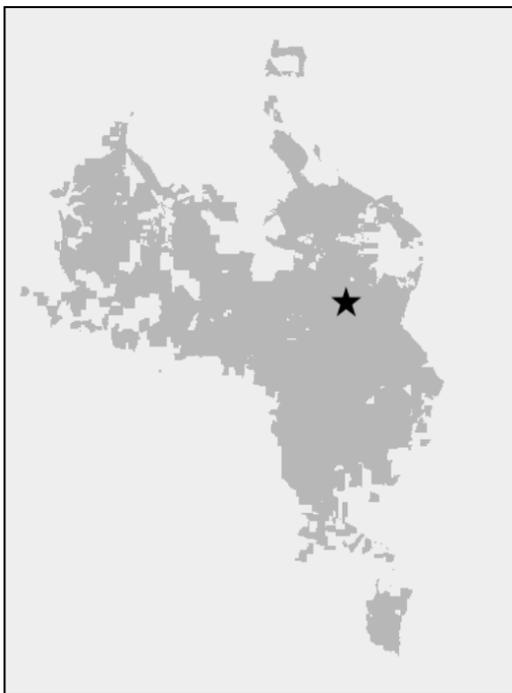
PROJECT DESCRIPTION:

This maintenance project provides for routine replacement of Town facility roofs. The \$770,000 FY 2018 appropriation funds roof replacements at the Town Hall facility and possibly the Herb Young Community Center.

PROJECT JUSTIFICATION:

Roofs are selected for replacement based on a priority ranking system. Each roof due for replacement is re-evaluated as it comes up on the scheduled rotation, and replacement is pursued if this assessment verifies that the timing is appropriate based on the roof's current state.

PROJECT LOCATION:



P. GENERAL GOVERNMENT

PROJECT TITLE: Sand/Salt Storage Structure

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$150,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the design and construction of two 600 ton capacity sand/salt storage structures. One structure will be located in southern Cary while the other will be sited in western Cary in order to address inefficiencies in winter weather road materials application. The \$150,000 FY 2018 appropriation fully funds both of these structures.

PROJECT JUSTIFICATION:

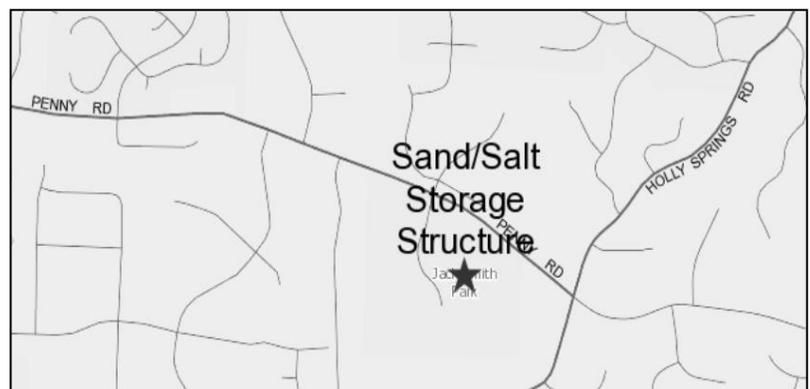
Currently, the Town has one sand/salt storage structure located centrally at the Garmon Operations Center. With the increase in the Town's lane miles over the years, travel times to reload have become inefficient. The existing sand/salt dome at the Operations center was built in 2001 and stores 2,400 tons of material. In 2001 the total street miles in Cary (including NCDOT maintained roads) was 550 compared to 740 in FY 2017 which is a 35% increase.

PROJECT LOCATION:

Western Cary Location



Southern Cary Location



Q. GENERAL GOVERNMENT

PROJECT TITLE: Sanitation and Recycling Truck Replacement

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$945,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project annually sets funds aside for the “pay-as-you-go” replacement of sanitation and recycling vehicles as they are retired and for the purchase of new vehicles as routes are added.

PROJECT JUSTIFICATION:

Sanitation and recycling trucks are typically replaced every eight years. The Town’s practice has been to budget the full amount for these replacements as the existing vehicles are retired. The approach of incrementally providing funds for these expenditures over the eight year life span of each vehicle smoothes out the impact of replacements on the general fund.

PROJECT LOCATION:

This project is not affiliated with a specific location.

R. GENERAL GOVERNMENT

PROJECT TITLE: Storm Drainage Project – Private Assistance

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$250,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Storm Drainage - Private Assistance project is a program through which private property owners may petition the Town for assistance in mitigating qualifying storm drainage issues on private property. Eligible assistance requests must be from Town of Cary property owners who have suffered structural flooding or major stream erosion due to storm drainage. Benefited property owners enter into an agreement with the Town prior to construction agreeing to pay for 50% of the project construction costs. The property owner must then pay this proportionate share in installments with the initial payment being due prior to beginning construction.

PROJECT JUSTIFICATION:

This project is the result of the Town's storm drainage Policy Statement #35 enacted by Town Council in May 2005 and revised on October 30, 2014. Benefits of this project include the ability to:

- reduce or eliminate risk to citizen safety as a result of stormwater issues
- establish open space
- improve water quality
- reduce flooding

PROJECT LOCATION:

Exact locations for this project are undetermined at this time.

S. GENERAL GOVERNMENT

PROJECT TITLE: Storm Drainage Project – Town Properties

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Storm Drainage – Town Properties project focuses on improving the storm drainage system in street rights of way and on Town properties. This program includes addressing undersized or broken culverts/storm drain pipes, flooding resulting from improperly sized culverts, broken storm drain pipes as well as a variety of issues encountered due to stormwater infrastructure impacting the Town right-of-way, other public property or private property adjacent to the Town maintained storm drainage system.

PROJECT JUSTIFICATION:

Potential drainage improvement sites on Town properties are analyzed and prioritized annually. Town Council reviews and approves a list of improvement sites to be addressed each year using available funds from this capital project. This project is the result of storm drainage Policy Statement #146 enacted by Town Council in May 2005 and revised on October 30, 2014. Benefits of this project include the ability to:

- stop structural flooding resulting from inadequate or malfunctioning Town infrastructure
- reduce the risk of flood waters overtopping roads at culvert crossings
- upgrade infrastructure to current standards
- capture water from roadways prior to it causing structural flooding

PROJECT LOCATION:

Exact locations for this project are undetermined at this time.

T. GENERAL GOVERNMENT

PROJECT TITLE: Stormwater Condition Assessment and Rehabilitation Program

RESPONSIBLE DEPARTMENT: Water Resources

PROJECT FUNDING: \$500,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

The Town of Cary's stormwater infrastructure database indicates there are approximately 22 miles of stormwater pipe over 50 years old, of which roughly 74% are in the Town's right of way. This project funds systematic testing and evaluation of the Town's culvert infrastructure.

PROJECT JUSTIFICATION:

A general condition assessment of these culverts with respect to their geographic location, age, capacity analysis and evaluation of their remaining service life will enable staff to plan for the systematic replacement/rehabilitation of infrastructure utilizing rehabilitation technologies prior to structure failure.

PROJECT LOCATION:

This condition assessment will focus on the Town's entire stormwater management system.

U. GENERAL GOVERNMENT

PROJECT TITLE: Town Hall Pedestrian Bridge

RESPONSIBLE DEPARTMENT: Transportation and Facilities

PROJECT FUNDING: \$300,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

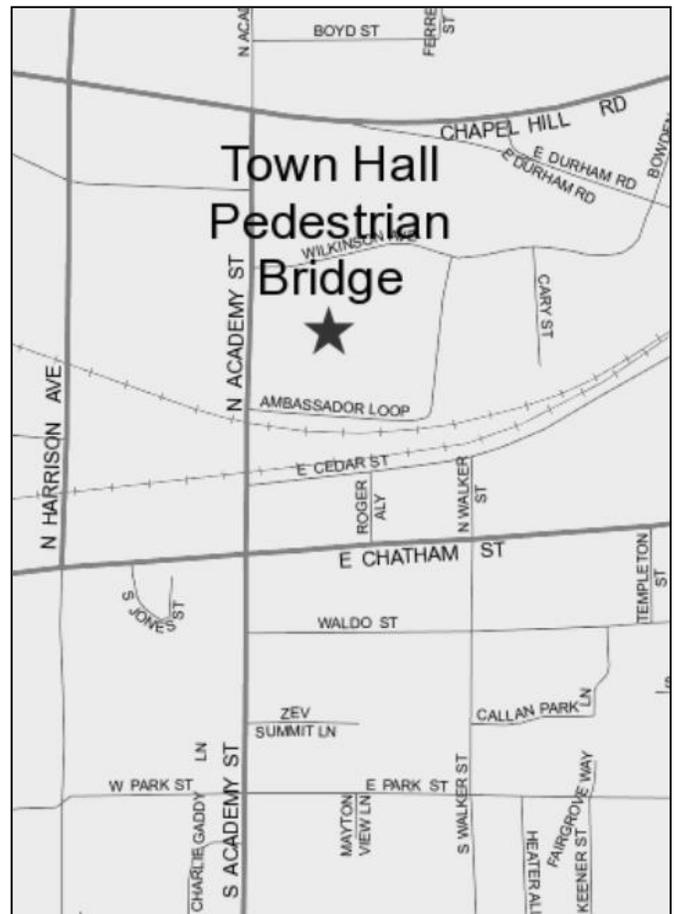
This project provides for the design, construction and/or demolition associated with the repair or removal of the existing pedestrian bridge located in the courtyard of Town Hall.

The \$300,000 FY 2018 appropriation addresses remediation efforts associated with this structure.

PROJECT JUSTIFICATION:

Preliminary findings from a consultant's review of the structure note that, due to how it was constructed, the steel support is rusting at a higher rate than typically experienced. Additional assessments are being conducted to determine whether repair or removal is best.

PROJECT LOCATION:



V. GENERAL GOVERNMENT

PROJECT TITLE: Upgrade Pedestrian Crossings (Relocation of Push Buttons)

RESPONSIBLE DEPARTMENT: Public Works

PROJECT FUNDING: \$30,000

FIRST YEAR ESTIMATED OPERATING COSTS: None

PROJECT DESCRIPTION:

This project provides for the phased installation of pedestrian crossing improvements at forty signalized intersections within Cary that are not within ADA guidelines. Total project cost is estimated at \$150,000. The \$90,000 appropriated through FY 2017 provides for the first three phases of relocations totaling 24 crossings, while the \$30,000 appropriated in FY 2018 supports the fourth phase with eight more crossings. An additional \$30,000 funding need in FY 2019 of the capital improvements plan would address the Town's remaining eight pedestrian crossings.

PROJECT JUSTIFICATION:

The traditional push buttons historically installed at pedestrian crossings are often not accessible for people in wheelchairs. Staff has identified forty Town of Cary intersections that need concrete pad installations or relocation of pedestrian push buttons. Staff plans to upgrade eight intersections per year for five years bringing all of Cary's pedestrian crossings in compliance with ADA requirements.

PROJECT LOCATION:

This project will occur at various intersections throughout the Town as identified by staff evaluation.

FISCAL YEAR 2018 DOWNTOWN CAPITAL IMPROVEMENTS

DOWNTOWN CAPITAL IMPROVEMENTS FUND

There are no FY 2018 Downtown capital appropriations specifically within the Downtown project category. However, the following two projects receiving funds in FY 2018 fall within other capital project categories but will occur downtown. More information on the Downtown Rehabilitation and Façade Improvement project can be found in the General Government section of this document, while details on the Downtown Park Future Phases Master Plan can be found in the PRCR section.

Project Name	FY 2018 Adopted
AH - Downtown Rehabilitation and Façade Improvement	100,000
DT - Downtown Park - Future Phases Master Plan	150,000
Total Downtown Projects	\$ 250,000

The following table presents a summary of all downtown focused projects, regardless of project category, that are programmed and/or planned for the FYs 2018 - 2028 capital improvements planning period.

Project Name	Programmed FYs 2018-22	Planned FYs 2023-28
AH - Downtown Rehabilitation and Façade Improvement	350,000	300,000
DT - Business Improvement District	350,000	-
DT - Downtown Improvements	1,750,000	-
DT - Downtown Park - Future Phases Master Plan	150,000	-
DT - Downtown Park Fountain Maintenance	-	48,000
GoCary Downtown Multi-Modal Station	21,000,000	-
TCAP - Digital Arts Center	-	1,170,000
Total Downtown Programmed/Planned Projects	\$ 23,600,000	\$ 1,518,000



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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
DOWNTOWN													
Special Projects													
DT - Business Improvement District	1,050,399	700,399	0	350,000	0	0	0	0	0	0	0	0	0
DT - Downtown Improvements	3,868,412	2,118,412	0	500,000	0	0	1,250,000	0	0	0	0	0	0
Total of Special Projects	4,918,811	2,818,811	0	850,000	0	0	1,250,000	0	0	0	0	0	0
Total of All DOWNTOWN	4,918,811	2,818,811	0	850,000	0	0	1,250,000	0	0	0	0	0	0

Total of Project Category from FY2018 Through FY2028 = 2,100,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
FIRE													
Equipment													
Self Contained Breathing Apparatus (SCBA) Replacement	2,000,000	0	0	0	0	2,000,000	0	0	0	0	0	0	0
Total of Equipment	2,000,000	0	0	0	0	2,000,000	0	0	0	0	0	0	0
Fire Apparatus													
Aerial Ladder Replacement	4,150,000	0	0	2,750,000	1,400,000	0	0	0	0	0	0	0	0
Fire Pumper Replacement	5,486,000	0	650,000	0	0	0	747,500	1,534,000	0	0	825,500	0	1,729,000
Fire Station 10 Pumper (O'Kelly Chapel Rd)	800,000	0	0	0	0	0	800,000	0	0	0	0	0	0
Fire Station 11 Pumper (White Oak Church Rd.)	800,000	0	0	0	0	0	0	800,000	0	0	0	0	0
Fire Station 12 Pumper (West Lake/ Middle Creek)	815,000	0	0	0	0	0	0	0	815,000	0	0	0	0
Rescue Truck Replacement	1,263,500	0	0	0	0	0	0	0	0	0	0	0	1,263,500
Total of Fire Apparatus	13,314,500	0	650,000	2,750,000	1,400,000	0	1,547,500	2,334,000	815,000	0	825,500	0	2,992,500
Special Projects													
Thermal Imaging Camera Replacement	260,400	0	0	0	0	0	0	0	260,400	0	0	0	0
Total of Special Projects	260,400	0	0	0	0	0	0	0	260,400	0	0	0	0
Stations with Pumpers													
Fire Station 10 (O'Kelly Chapel Rd.)	10,198,560	925,000	0	0	750,000	7,000,000	1,523,560	0	0	0	0	0	0
Fire Station 12 (West Lake/ Middle Creek)	9,718,060	0	0	0	0	0	0	882,640	8,835,420	0	0	0	0
Fire Station 14 (RDU/Pleasant Grove Ch. Rd.)	12,383,820	0	0	0	0	0	0	1,569,400	0	0	0	1,086,800	9,727,620
Fire Station 15 (Ernest Jones Rd. & Mt. Pisgah Ch. Rd.)	12,293,360	0	0	0	0	0	0	0	1,609,300	0	0	972,400	9,711,660
Total of Stations with Pumpers	44,593,800	925,000	0	0	750,000	7,000,000	1,523,560	2,452,040	10,444,720	0	0	2,059,200	19,439,280
Total of All FIRE	60,168,700	925,000	650,000	2,750,000	2,150,000	9,000,000	3,071,060	4,786,040	11,520,120	0	825,500	2,059,200	22,431,780

Total of Project Category from FY2018 Through FY2028 = 59,243,700

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
GENERAL													
Equipment													
Electric Vehicle Charging Stations for Library Parking Deck	110,000	0	110,000	0	0	0	0	0	0	0	0	0	0
Heavy Duty Equipment Replacement - General	6,500,000	1,400,000	600,000	600,000	600,000	600,000	600,000	350,000	350,000	350,000	350,000	350,000	350,000
Sanitation and Recycling Truck Replacement	29,220,901	15,345,965	945,000	992,250	1,041,863	1,093,956	1,148,653	1,206,086	1,266,390	1,396,196	1,507,892	1,598,366	1,678,284
Total of Equipment	35,830,901	16,745,965	1,655,000	1,592,250	1,641,863	1,693,956	1,748,653	1,556,086	1,616,390	1,746,196	1,857,892	1,948,366	2,028,284
Major Maintenance													
ADA Improvements - Town Facilities	11,675,350	0	335,350	1,000,000	1,000,000	1,620,000	1,620,000	1,620,000	896,000	896,000	896,000	896,000	896,000
Facility Painting Interior and Exterior	1,045,000	0	70,000	0	85,000	85,000	205,000	115,000	90,000	90,000	95,000	105,000	105,000
HVAC Replacements and Major Maintenance	1,477,800	0	120,000	0	70,000	20,000	90,000	187,800	175,000	210,000	230,000	150,000	225,000
Parking Lot Resurfacing and Renovations	1,498,000	0	101,000	0	115,000	95,000	80,000	142,000	175,000	210,000	230,000	150,000	200,000
Roof Assessment and Rehabilitation Program	3,660,000	400,000	770,000	300,000	200,000	600,000	0	330,000	330,000	0	330,000	0	400,000
Town Hall Pedestrian Bridge	300,000	0	300,000	0	0	0	0	0	0	0	0	0	0
Upgrade Pedestrian Crossings (Relocation of Push Buttons)	150,000	90,000	30,000	30,000	0	0	0	0	0	0	0	0	0
Total of Major Maintenance	19,806,150	490,000	1,726,350	1,330,000	1,470,000	2,420,000	1,995,000	2,394,800	1,666,000	1,406,000	1,781,000	1,301,000	1,826,000
Planning													
AH - Downtown Rehab and Façade Improvement Program	943,591	293,591	100,000	100,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
AH - Minimum Housing Demolition	462,000	99,500	0	25,000	0	37,500	37,500	37,500	37,500	37,500	50,000	50,000	50,000
AH - Owner-Occupied Housing Rehabilitation Program	2,840,211	665,211	300,000	300,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Historic Preservation Implementation Activities	271,000	25,000	21,000	10,000	35,000	10,000	35,000	10,000	35,000	10,000	35,000	10,000	35,000
Total of Planning	4,516,802	1,083,302	421,000	435,000	260,000	272,500	297,500	272,500	297,500	272,500	310,000	285,000	310,000
Special Facilities for Operations													
Garmon Operations Center - Facility Improvements Phase II	3,470,000	350,000	1,600,000	0	0	0	1,520,000	0	0	0	0	0	0
Sand/Salt Storage Structures	150,000	0	150,000	0	0	0	0	0	0	0	0	0	0
Total of Special Facilities for Operations	3,620,000	350,000	1,750,000	0	0	0	1,520,000	0	0	0	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
GENERAL													
Special Projects													
Application Software Replacement Project - CLASS and FASTER	800,000	575,000	225,000	0	0	0	0	0	0	0	0	0	0
Conference Room Technology Upgrades	215,400	188,100	27,300	0	0	0	0	0	0	0	0	0	0
Historic Town Facility Preservation	1,000,000	0	1,000,000	0	0	0	0	0	0	0	0	0	0
Jordan Lake Retrofits - Stormwater Related	2,250,000	0	0	0	0	100,000	350,000	0	600,000	600,000	600,000	0	0
Relamping Town Facilities	225,000	125,000	100,000	0	0	0	0	0	0	0	0	0	0
Total of Special Projects	4,490,400	888,100	1,352,300	0	0	100,000	350,000	0	600,000	600,000	600,000	0	0
Storm Drainage													
Storm Drainage Project - Private Assistance	4,332,230	82,230	250,000	250,000	250,000	250,000	250,000	500,000	500,000	500,000	500,000	500,000	500,000
Storm Drainage Project - Town Properties	5,661,860	561,860	300,000	300,000	300,000	300,000	300,000	600,000	600,000	600,000	600,000	600,000	600,000
Stormwater Condition Assessment and Rehabilitation Program	4,500,000	0	500,000	0	500,000	0	500,000	500,000	500,000	500,000	500,000	500,000	500,000
Total of Storm Drainage	14,494,090	644,090	1,050,000	550,000	1,050,000	550,000	1,050,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
Total of All GENERAL	82,758,343	20,201,457	7,954,650	3,907,250	4,421,863	5,036,456	6,961,153	5,823,386	5,779,890	5,624,696	6,148,892	5,134,366	5,764,284

Total of Project Category from FY2018 Through FY2028 = 62,556,886

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
PARKS													
Community Centers													
Herb Young Community Center Expansion	8,155,000	0	0	0	0	0	0	0	1,000,000	0	7,155,000	0	0
Mills Park Community Center	17,500,000	0	0	0	1,500,000	15,000,000	1,000,000	0	0	0	0	0	0
Total of Community Centers	25,655,000	0	0	0	1,500,000	15,000,000	1,000,000	0	1,000,000	0	7,155,000	0	0
Greenways													
Batchelor Branch Greenway - Phases II and III	3,600,000	0	0	0	0	300,000	1,500,000	0	1,800,000	0	0	0	0
Black Creek Greenway Renovation - Phases I, II & V	6,650,000	375,000	4,275,000	0	0	2,000,000	0	0	0	0	0	0	0
Crabtree Creek Greenway - Bond Park Segment	575,000	0	0	0	0	0	0	75,000	500,000	0	0	0	0
Dutchman's Branch Greenway - Phase II	1,350,000	0	0	0	0	0	1,350,000	0	0	0	0	0	0
Greenwood Circle Greenway (Walnut Street Park)	1,400,000	0	0	0	0	0	0	0	400,000	0	1,000,000	0	0
Hatcher Grove Greenway	12,500,000	0	0	0	0	0	1,500,000	0	5,000,000	0	1,000,000	0	5,000,000
Hinshaw Greenway Renovation	1,700,000	200,000	0	0	0	1,500,000	0	0	0	0	0	0	0
O'Kelley Chapel Road Street-Side Trail	1,450,000	0	0	0	0	0	0	0	0	0	350,000	1,100,000	0
Panther Creek Greenway - Phase 2	1,950,000	0	0	0	0	0	0	0	450,000	0	1,500,000	0	0
Piney Plains Greenway - Phase II	1,400,000	0	0	0	400,000	1,000,000	0	0	0	0	0	0	0
Speight Branch Greenway - Phase II	3,600,000	0	0	0	0	0	0	0	0	600,000	0	3,000,000	0
Swift Creek Greenway (From Bond Park to Laura Duncan Road)	4,000,000	0	0	0	0	0	0	500,000	0	3,500,000	0	0	0
Swift Creek Greenway (Lake Pine Drive to Regency Parkway)	15,000,000	0	0	0	0	0	0	0	2,400,000	6,000,000	600,000	6,000,000	0
White Oak Creek Greenway Trailhead	605,000	185,000	0	0	0	0	0	420,000	0	0	0	0	0
Total of Greenways	55,780,000	760,000	4,275,000	0	400,000	4,800,000	4,350,000	995,000	10,550,000	10,100,000	4,450,000	10,100,000	5,000,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
PARKS													
Major Maintenance													
Athletic Field Bleacher Replacement	421,000	0	48,000	78,000	25,000	0	20,000	20,000	40,000	40,000	40,000	50,000	60,000
Athletic Field Fencing Amenities Replacement (Windscreen, Safety Cap, Padding, Netting)	734,000	0	0	97,500	0	45,000	97,500	240,000	20,000	80,000	32,000	100,000	22,000
Athletic Field Fencing Repair / Replacement	904,000	0	0	88,000	0	105,000	95,000	110,000	105,000	95,000	105,000	105,000	96,000
Athletic Field Lighting Replacement	2,100,000	0	0	440,000	0	665,000	0	490,000	0	505,000	0	0	0
DT - Downtown Park Fountain Maintenance	48,000	0	0	0	0	0	0	0	0	48,000	0	0	0
Greenway Pedestrian Structure Repair	1,900,000	0	100,000	100,000	100,000	100,000	100,000	210,000	235,000	235,000	240,000	240,000	240,000
Greenway Resurfacing Projects	4,984,000	0	250,000	320,000	520,000	340,000	554,000	500,000	500,000	500,000	500,000	500,000	500,000
Indoor Athletic Court Resurfacing	280,000	0	0	0	0	0	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Playground Surface Repairs/Replacement	860,000	0	83,000	60,000	85,000	85,000	63,000	87,000	87,000	65,000	89,000	89,000	67,000
Professional Level Sand Based Athletic Field Renovation	2,600,000	0	0	0	0	0	650,000	650,000	650,000	0	0	0	650,000
Sports Turf Field Replacement	5,000,000	0	0	0	0	0	0	0	0	0	0	5,000,000	0
Tennis Court Fencing Repair / Replacement	738,500	0	0	125,000	0	137,500	110,000	80,000	0	130,000	78,000	78,000	0
Tennis Court Renovations	1,658,200	0	72,000	173,000	160,000	80,000	202,000	187,200	93,000	202,800	187,200	96,000	205,000
Total of Major Maintenance	22,227,700	0	553,000	1,481,500	890,000	1,557,500	1,931,500	2,614,200	1,770,000	1,940,800	1,311,200	6,298,000	1,880,000
Parks													
Eastern Gateway Park (P-001)	7,000,000	0	0	0	0	0	0	100,000	900,000	0	6,000,000	0	0
P-006 Neighborhood Park	4,600,000	100,000	500,000	0	4,000,000	0	0	0	0	0	0	0	0
P-007 Community Park	11,700,000	0	0	0	0	0	0	0	0	0	0	1,800,000	9,900,000
P-010 Neighborhood Park	6,150,000	0	850,000	0	5,300,000	0	0	0	0	0	0	0	0
P-011 Neighborhood Park	7,200,000	0	0	0	0	0	0	600,000	0	3,300,000	0	3,300,000	0
Total of Parks	36,650,000	100,000	1,350,000	0	9,300,000	0	0	700,000	900,000	3,300,000	6,000,000	5,100,000	9,900,000
Parks - Community													
DT - Downtown Park - Future Phases Master Plan	250,000	100,000	150,000	0	0	0	0	0	0	0	0	0	0
Total of Parks - Community	250,000	100,000	150,000	0									

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
PARKS													
Public Art													
Public Art - Black Creek Greenway	35,000	0	35,000	0	0	0	0	0	0	0	0	0	0
Public Art - P-006 Neighborhood Park	76,000	0	10,000	10,000	56,000	0	0	0	0	0	0	0	0
Public Art - P-010 Neighborhood Park	60,000	0	10,000	0	50,000	0	0	0	0	0	0	0	0
Public Art - Park & Greenway Amenities	20,000	0	20,000	0	0	0	0	0	0	0	0	0	0
Total of Public Art	191,000	0	75,000	10,000	106,000	0	0	0	0	0	0	0	0
Renovations - Park & Greenway													
Annie Jones Park Tennis Court Renovations	650,000	0	50,000	0	600,000	0	0	0	0	0	0	0	0
Dunham Park Improvements	1,650,000	0	150,000	0	900,000	0	0	0	600,000	0	0	0	0
Godbold Park Tennis Court Renovation	1,075,000	0	0	0	0	0	225,000	0	850,000	0	0	0	0
MacDonald Woods Park Improvements - Phase II	375,000	0	0	0	0	0	0	75,000	300,000	0	0	0	0
Middle Creek Tennis Court Replacement	1,100,000	0	0	0	0	0	0	150,000	0	950,000	0	0	0
Park and Greenway Renovations	7,145,000	0	270,000	450,000	400,000	400,000	650,000	750,000	750,000	825,000	825,000	825,000	1,000,000
Recreational Facility Improvements	400,000	0	0	400,000	0	0	0	0	0	0	0	0	0
Restroom Replacement	1,350,000	0	0	300,000	300,000	0	0	350,000	0	0	0	400,000	0
Thomas Brooks Park Field Drainage	1,000,000	450,000	550,000	0	0	0	0	0	0	0	0	0	0
Total of Renovations - Park & Greenway	14,745,000	450,000	1,020,000	1,150,000	2,200,000	400,000	875,000	1,325,000	2,500,000	1,775,000	825,000	1,225,000	1,000,000
Special Facilities													
Cary Tennis Park Court Renovations	6,135,000	1,200,000	450,000	0	0	1,485,000	0	1,500,000	1,500,000	0	0	0	0
Cary Tennis Park Improvements - Interlocal (Covered Courts and Clubhouse)	7,380,500	6,508,000	872,500	0	0	0	0	0	0	0	0	0	0
Koka Booth Amphitheatre Improvements	3,500,000	350,000	0	350,000	0	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000
TCAP - Digital Arts Center	1,170,000	0	0	0	0	0	0	20,000	150,000	1,000,000	0	0	0
WakeMed Soccer Park - Facility Improvements	3,690,000	0	0	0	2,000,000	0	0	940,000	0	750,000	0	0	0
Total of Special Facilities	21,875,500	8,058,000	1,322,500	350,000	2,000,000	1,835,000	350,000	2,810,000	2,000,000	2,100,000	350,000	350,000	350,000
Special Projects													
Park, Greenway and Facility Sign Plan Implementation	705,000	370,000	75,000	0	0	0	50,000	0	50,000	0	80,000	0	80,000
Total of Special Projects	705,000	370,000	75,000	0	0	0	50,000	0	50,000	0	80,000	0	80,000

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Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
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PARKS

Total of All PARKS	178,079,200	9,838,000	8,820,500	2,991,500	16,396,000	23,592,500	8,556,500	8,444,200	18,770,000	19,215,800	20,171,200	23,073,000	18,210,000
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Total of Project Category from FY2018 Through FY2028 = 168,241,200

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
SEWER													
Equipment													
Heavy Duty Equipment Replacement - Sewer	3,680,000	0	600,000	600,000	600,000	300,000	200,000	230,000	230,000	230,000	230,000	230,000	230,000
Total of Equipment	3,680,000	0	600,000	600,000	600,000	300,000	200,000	230,000	230,000	230,000	230,000	230,000	230,000
Major Maintenance													
ADA Improvements - Sewer Treatment Facilities	1,050,000	0	0	0	0	0	0	0	280,000	460,000	310,000	0	0
South Cary Water Reclamation Facility - HVAC Replacement	56,400	0	56,400	0	0	0	0	0	0	0	0	0	0
Total of Major Maintenance	1,106,400	0	56,400	0	0	0	0	0	280,000	460,000	310,000	0	0
Pump Stations and Force Mains													
Aviation Pump Station Upgrade	3,100,000	0	0	0	0	0	0	0	0	0	3,100,000	0	0
Batchelor Road Pump Station, Interceptor, and Force Main	1,900,500	0	0	0	0	186,000	1,714,500	0	0	0	0	0	0
Bells Lake Road Pump Station, Interceptor, and Force Main	4,042,950	0	0	0	0	0	222,250	3,820,700	0	0	0	0	0
Dutchman's Branch Regional Pump Station, Force Main and Interceptor	4,800,000	800,000	0	0	0	0	0	0	4,000,000	0	0	0	0
KCPS and MBRPS Force Main Parallel along Green Level Church Road	2,000,000	0	2,000,000	0	0	0	0	0	0	0	0	0	0
Morris Branch Pump Station Improvements	150,000	0	0	0	0	0	0	150,000	0	0	0	0	0
Reedy Creek Regional Pump Station Force Main, Interceptor and Pump Station Eliminations	7,500,000	0	0	0	0	2,500,000	5,000,000	0	0	0	0	0	0
Rocky Branch Pump Station, Interceptor, and Force Main	3,370,000	0	0	0	0	1,000,000	2,370,000	0	0	0	0	0	0
Swift Creek Pump Station - Pump Replacements	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000	0	0
Swift Creek Pump Station Bar Screen and Fence Improvements	575,000	0	0	0	0	0	0	575,000	0	0	0	0	0
Upper Crabtree Creek Pump Station and Force Main	21,080,000	3,080,000	1,100,000	16,900,000	0	0	0	0	0	0	0	0	0
Walnut Creek Pump Station Improvements	1,500,000	0	0	0	0	0	0	0	0	0	1,500,000	0	0
West Cary Pump Station Improvements - Pump Rebuild and Odor Control Media Replacement	450,000	0	0	0	0	0	0	0	0	0	450,000	0	0
Western Wake Water Reclamation Facility - Beaver Creek Pump Station Improvements - Pump Rebuild and Odor Control Media Replacement	500,000	0	0	0	0	0	0	0	0	500,000	0	0	0
White Oak Church Road Pump Station, Interceptor, and Force Main	1,500,000	0	0	0	0	150,000	1,350,000	0	0	0	0	0	0
Winding Pine Regional Pump Station, Gravity Sewer & Force Main	6,700,000	1,800,000	500,000	4,400,000	0	0	0	0	0	0	0	0	0
Total of Pump Stations and Force Mains	60,168,450	5,680,000	3,600,000	21,300,000	0	3,836,000	10,656,750	4,545,700	4,000,000	500,000	6,050,000	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
SEWER													
Reclaimed Water													
Extend Reclaimed Water Mains	1,575,967	0	0	0	0	162,889	171,033	179,588	188,567	197,995	207,895	225,000	243,000
Reclaimed Water Line Oversizings	2,310,565	0	167,475	175,849	184,642	193,874	200,000	206,000	212,180	218,545	224,500	250,000	277,500
Reclaimed Water System Master Plan Update	250,000	0	0	0	0	0	0	250,000	0	0	0	0	0
Total of Reclaimed Water	4,136,532	0	167,475	175,849	184,642	356,763	371,033	635,588	400,747	416,540	432,395	475,000	520,500
Sewer System Repair/Rehab													
Infrastructure GIS Asset Data - Wastewater	200,000	0	0	200,000	0	0	0	0	0	0	0	0	0
Sewer System Repair/Rehabilitation	39,769,264	0	5,428,112	6,423,628	5,782,659	5,171,865	5,808,000	1,674,000	1,719,000	1,764,000	1,898,000	2,000,000	2,100,000
Total of Sewer System Repair/Rehab	39,969,264	0	5,428,112	6,623,628	5,782,659	5,171,865	5,808,000	1,674,000	1,719,000	1,764,000	1,898,000	2,000,000	2,100,000
Waste Water Collection													
Crabtree Interceptor Parallel	6,500,000	0	0	0	6,500,000	0	0	0	0	0	0	0	0
I-40 Pump Station Improvements	200,000	0	200,000	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Oversizings	1,935,000	0	195,000	200,000	205,000	210,000	215,000	220,000	225,000	230,000	235,000	0	0
Upper Swift Creek Parallel Interceptor	780,000	0	0	0	0	0	0	780,000	0	0	0	0	0
Total of Waste Water Collection	9,415,000	0	395,000	200,000	6,705,000	210,000	215,000	1,000,000	225,000	230,000	235,000	0	0
Waste Water System Management													
Biosolids and Residuals Master Plan	300,000	0	0	0	0	300,000	0	0	0	0	0	0	0
Cleaning and Video Survey of Sewer Interceptors	8,702,150	2,436,300	448,200	470,500	494,100	518,800	544,750	572,000	600,600	630,600	662,100	662,100	662,100
Force Main Easement Clearing Project - Survey and Clear	400,000	200,000	0	100,000	0	100,000	0	0	0	0	0	0	0
Miscellaneous Pump Station Grinder Exchange Rebuild / Replace	840,000	240,000	150,000	0	0	150,000	0	0	150,000	0	0	150,000	0
Pump Station Variable Frequency Drive (VFD) Replacements	500,000	125,000	0	125,000	0	0	125,000	0	0	125,000	0	0	0
SCADA (Supervisory and Data Acquisition Control) at the Tier II Wastewater Pump Stations	500,000	0	0	500,000	0	0	0	0	0	0	0	0	0
Sewer Flow Management Modeling Scenarios	450,000	300,000	150,000	0	0	0	0	0	0	0	0	0	0
Wastewater Collection System Master Plan Update	500,000	0	250,000	0	0	0	0	250,000	0	0	0	0	0
Wastewater System Flow Monitoring - Replace Flow Meters	131,550	0	0	0	0	0	131,550	0	0	0	0	0	0
Total of Waste Water System Management	12,323,700	3,301,300	998,200	1,195,500	494,100	1,068,800	801,300	822,000	750,600	755,600	662,100	812,100	662,100

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SEWER													
Waste Water Treatment													
North Cary Water Reclamation Facility - Alternate Treated Wastewater Discharge	500,000	0	0	0	0	0	0	0	0	150,000	350,000	0	0
North Cary Water Reclamation Facility - Band Screen Repair and Replacement	900,000	150,000	0	0	0	0	0	750,000	0	0	0	0	0
North Cary Water Reclamation Facility - Bio-Filter Media Replacement	150,000	0	0	0	0	0	0	0	150,000	0	0	0	0
North Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement	350,000	200,000	150,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Ferric Tank Replacement and Improvements	100,000	0	0	0	0	0	0	100,000	0	0	0	0	0
North Cary Water Reclamation Facility - Fork Lift - New	110,000	0	110,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Generator Replacements	2,500,000	0	0	0	0	0	0	0	500,000	2,000,000	0	0	0
North Cary Water Reclamation Facility - Grit Removal and Headworks Improvements	2,000,000	0	0	0	0	0	250,000	1,750,000	0	0	0	0	0
North Cary Water Reclamation Facility - HVAC Replacements	195,000	15,000	0	30,000	0	0	0	0	0	150,000	0	0	0
North Cary Water Reclamation Facility - Improvements for Continuous Three Train Operation	50,000	0	50,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Inductively Coupled Plasma Mass Spectrometer Replacement	200,000	0	0	0	0	200,000	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Influent Pump Station Screen Replacements	800,000	0	0	0	0	0	0	0	0	800,000	0	0	0
North Cary Water Reclamation Facility - Mixer Replacements	700,000	500,000	200,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Partial and Full Diffused Air System	7,220,000	6,800,000	420,000	0	0	0	0	0	0	0	0	0	0
North Cary Water Reclamation Facility - Programmable Logic Controller Replacements	2,000,000	0	0	0	0	0	0	500,000	500,000	500,000	500,000	0	0
North Cary Water Reclamation Facility - Return Activated Sludge Pump Replacements	250,000	0	0	0	0	0	0	0	250,000	0	0	0	0
North Cary Water Reclamation Facility - Submersible Influent Pump Replacement	450,000	0	0	0	0	150,000	150,000	150,000	0	0	0	0	0
North Cary Water Reclamation Facility - Tertiary Filter Cells Addition	2,000,000	0	0	0	0	0	0	0	0	250,000	1,750,000	0	0
North Cary Water Reclamation Facility - Variable Frequency Drive Replacement	625,000	200,000	0	0	200,000	0	225,000	0	0	0	0	0	0
South Cary Water Reclamation Facility - Programmable Logic Controller Replacements	1,000,000	0	0	0	0	500,000	500,000	0	0	0	0	0	0
South Cary Water Reclamation Facility - Aeration Basin and Air Headler Repair	275,000	175,000	100,000	0	0	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Aeration Basin Blower Replacements	1,000,000	0	325,000	0	0	325,000	0	0	0	0	0	0	350,000
South Cary Water Reclamation Facility - Aeration Basin Recycle Pump Replacements	240,000	0	80,000	80,000	80,000	0	0	0	0	0	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
SEWER													
South Cary Water Reclamation Facility - Centrifuge Replacement Project	2,500,000	0	0	0	0	0	0	225,000	2,275,000	0	0	0	0
South Cary Water Reclamation Facility - Clarifier Equipment Repair and Replacement	750,000	200,000	200,000	100,000	0	0	0	0	250,000	0	0	0	0
South Cary Water Reclamation Facility - Generator Replacement	1,000,000	0	0	0	0	0	0	250,000	750,000	0	0	0	0
South Cary Water Reclamation Facility - Gravity Belt Thickener Rebuild	400,000	0	150,000	0	0	0	0	0	0	0	250,000	0	0
South Cary Water Reclamation Facility - Headworks Equipment Improvements	350,000	0	0	0	0	0	350,000	0	0	0	0	0	0
South Cary Water Reclamation Facility - Inductively Coupled Plasma Mass Spectrometer Replacement	225,000	0	0	0	0	0	0	0	225,000	0	0	0	0
South Cary Water Reclamation Facility - Peak Flow Management Study	650,000	0	150,000	0	500,000	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Plant Drain Pump Station Improvements	125,000	0	0	125,000	0	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Polishing Pond Liner Replacement	250,000	0	0	250,000	0	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - RAS/WAS Pump Station Improvements	350,000	0	0	0	350,000	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Reclaimed Pump Station Rebuild and Replacement	225,000	0	0	0	0	0	0	0	0	225,000	0	0	0
South Cary Water Reclamation Facility - Screen Replacement	500,000	0	0	0	0	0	0	0	500,000	0	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Centrifuge Rebuild	350,000	175,000	0	0	175,000	0	0	0	0	0	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Dewatered Cake Mixer Repair and Replacement	250,000	100,000	0	0	0	0	150,000	0	0	0	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Dewatered Cake Pump	475,000	225,000	0	0	0	0	0	0	0	0	0	250,000	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Induction Fan Replacement	225,000	100,000	0	0	0	0	0	0	0	125,000	0	0	0
South Cary Water Reclamation Facility - Thermal Biosolids Dryer - Rotary Drum Replacement	1,450,000	1,200,000	0	0	0	0	0	0	0	0	250,000	0	0
South Cary Water Reclamation Facility - Variable Frequency Drive Replacements	600,000	0	200,000	200,000	0	0	200,000	0	0	0	0	0	0
Western Wake Water Reclamation Facility - Phase II	500,000	0	0	0	0	0	0	0	0	0	0	0	500,000
Western Wake Water Reclamation Facility - Biofilter Media Replacement for Odor Control	300,000	0	0	0	0	0	0	0	300,000	0	0	0	0
Western Wake Water Reclamation Facility - Carbon Replacement for Odor Control North Odor Control and Solid Handling Facility	140,000	0	0	0	70,000	0	0	0	0	70,000	0	0	0
Western Wake Water Reclamation Facility - Clarifier Rake Arm System (wear strip and bearing replacement)	100,000	0	0	0	0	0	0	0	0	0	0	100,000	0
Western Wake Water Reclamation Facility - Drag Conveyor Replacement	350,000	0	0	0	0	0	0	0	0	350,000	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
SEWER													
Western Wake Water Reclamation Facility - NRCY and ARCY Pump Rebuild/Replace	375,000	0	0	0	0	0	0	75,000	75,000	75,000	75,000	0	75,000
Western Wake Water Reclamation Facility - Rebuild Jet Aeration and Post Aeration Pumps	466,000	0	0	0	0	83,000	83,000	100,000	100,000	0	0	0	100,000
Western Wake Water Reclamation Facility - Rebuild Mechanical Screen and Grinder	125,000	0	0	0	0	0	0	0	0	0	125,000	0	0
Western Wake Water Reclamation Facility - Rebuild/Replace Mixers	422,000	0	0	0	0	61,000	61,000	100,000	100,000	0	0	0	100,000
Total of Waste Water Treatment	37,068,000	10,040,000	2,135,000	785,000	1,375,000	1,319,000	1,969,000	4,000,000	5,975,000	4,695,000	3,300,000	350,000	1,125,000
Total of All SEWER	167,867,346	19,021,300	13,380,187	30,879,977	15,141,401	12,262,428	20,021,083	12,907,288	13,580,347	9,051,140	13,117,495	3,867,100	4,637,600

Total of Project Category from FY2018 Through FY2028 = 148,846,046

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
TRANSPORTATION													
Alternate Modes													
Aviation Parkway Sidewalk Reimbursement - NE Quad at I-40 Interchange	20,000	0	20,000	0	0	0	0	0	0	0	0	0	0
Aviation Parkway Sidewalk Reimbursement	500,000	0	0	0	0	0	500,000	0	0	0	0	0	0
Bicycle Facilities Implementation	285,000	0	25,000	0	25,000	25,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Connectivity Annual Project	500,000	0	0	0	0	0	0	0	0	0	0	0	500,000
GoCary ADA Bus Stop Improvements	895,000	0	895,000	0	0	0	0	0	0	0	0	0	0
GoCary Bus Stop Sign Replacement	43,000	0	43,000	0	0	0	0	0	0	0	0	0	0
GoCary Bus Stop Solar Lighting Upgrades	345,000	0	0	0	345,000	0	0	0	0	0	0	0	0
GoCary Capital Amenities	825,000	0	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
GoCary Downtown Multimodal Station	21,000,000	0	0	2,500,000	1,200,000	17,000,000	300,000	0	0	0	0	0	0
GoCary New Customer Information Technology	2,000,000	0	0	0	500,000	0	500,000	0	500,000	0	500,000	0	0
GoCary New Fare Technology	2,000,000	0	0	0	1,000,000	500,000	500,000	0	0	0	0	0	0
GoCary Regional Operations & Maintenance Facility	11,000,000	0	1,000,000	10,000,000	0	0	0	0	0	0	0	0	0
GoCary Transfer Center Improvements	6,000,000	0	0	0	0	500,000	2,500,000	2,500,000	500,000	0	0	0	0
GoCary Wayfinding Signage	50,000	0	0	0	10,000	0	10,000	0	10,000	0	10,000	0	10,000
Sidewalk and Pedestrian Improvements	11,745,000	0	1,000,000	1,000,000	1,375,000	1,000,000	1,000,000	1,000,000	1,200,000	1,200,000	1,000,000	1,000,000	970,000
Total of Alternate Modes	57,208,000	0	3,058,000	13,575,000	4,530,000	19,100,000	5,415,000	3,605,000	2,315,000	1,305,000	1,615,000	1,105,000	1,585,000
Control Systems													
School Zone Flasher Integration in the signal system	450,000	0	0	0	0	0	0	450,000	0	0	0	0	0
Signal System - Camera Coverage Expansion	800,000	350,000	0	0	0	0	0	0	450,000	0	0	0	0
Signal System - Fiber Extension to Northwest Cary	550,000	0	0	0	0	550,000	0	0	0	0	0	0	0
Signal System - Upgrade Traffic Signal Controllers	400,000	0	0	400,000	0	0	0	0	0	0	0	0	0
Thoroughfare Street Lights	900,000	0	0	0	300,000	0	0	300,000	0	0	300,000	0	0
Traffic Signal Changes to Flashing Yellow Arrow	550,000	0	0	0	0	0	0	0	200,000	0	0	0	350,000
Traffic Signalization Projects	3,300,000	0	400,000	0	300,000	0	500,000	0	600,000	0	700,000	0	800,000
Total of Control Systems	6,950,000	350,000	400,000	400,000	600,000	550,000	500,000	750,000	1,250,000	0	1,000,000	0	1,150,000

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TRANSPORTATION													
Major Maintenance													
Bridge Replacements	3,000,000	0	0	0	0	0	0	750,000	0	1,000,000	0	1,250,000	0
Bridge/Culvert Repairs	785,000	0	85,000	0	0	100,000	0	150,000	0	200,000	0	250,000	0
Street Improvement Project	85,525,000	0	6,500,000	6,750,000	7,375,000	7,150,000	7,500,000	7,750,000	8,000,000	8,250,000	8,500,000	8,750,000	9,000,000
Total of Major Maintenance	89,310,000	0	6,585,000	6,750,000	7,375,000	7,250,000	7,500,000	8,650,000	8,000,000	9,450,000	8,500,000	10,250,000	9,000,000
Road Capacity													
Carpenter Fire Station Road Widening (NC55 to East of Cameron Pond)	9,700,000	0	1,100,000	2,500,000	6,100,000	0	0	0	0	0	0	0	0
Carpenter Fire Station Road/CSX Rail Grade Separation	21,220,000	18,220,000	3,000,000	0	0	0	0	0	0	0	0	0	0
Cary Parkway - Evans to Beechtree	32,000,000	0	0	0	0	0	0	0	0	0	3,500,000	5,500,000	23,000,000
Cary Parkway Extension (North Harrison Avenue to Trinity Road)	7,500,000	0	0	0	0	0	0	0	0	0	1,000,000	1,500,000	5,000,000
Chapel Hill Road - N. Academy to Reedy Creek	11,500,000	0	0	0	350,000	5,850,000	5,300,000	0	0	0	0	0	0
Chapel Hill Road Widening - (N. Academy to NW Maynard Road)	11,310,000	0	0	0	0	0	0	1,200,000	4,010,000	6,100,000	0	0	0
Chapel Hill Road Widening - (NW Maynard Road to Morrisville ETJ)	40,000,000	0	0	0	0	0	0	0	0	3,000,000	21,000,000	16,000,000	0
Green Level Church Road - McCrimmon Parkway to O'Kelly Chapel Road	3,490,000	0	0	3,490,000	0	0	0	0	0	0	0	0	0
Holly Springs Road Widening - Cary Parkway to Jones Franklin Road	2,200,000	0	0	0	0	0	0	600,000	1,600,000	0	0	0	0
Intersection Improvements	13,000,000	0	0	0	1,250,000	4,000,000	0	0	0	1,000,000	1,000,000	4,750,000	1,000,000
Louis Stephens Road/Carpenter Upchurch Road Widening	6,750,000	0	0	0	0	0	0	950,000	550,000	5,250,000	0	0	0
McCrimmon Parkway Extension - NC55 to Louis Stephens Drive	31,200,000	0	0	0	0	0	0	4,200,000	6,000,000	21,000,000	0	0	0
Morrisville Parkway Extension - Phase III - NC55 to Green Level Church Road	28,532,100	16,832,100	0	0	0	0	0	0	0	1,200,000	1,500,000	9,000,000	0
O'Kelly Chapel Road Widening - NC 55 - Green Level Church Road (Developer Agreement)	6,750,000	0	0	0	0	0	0	0	0	0	750,000	2,000,000	4,000,000
Penny Road Widening - Ederlee Drive to Kildaire Farm Road	4,700,000	0	0	0	0	0	0	0	0	450,000	1,250,000	3,000,000	0
Reedy Creek Road Widening - Northeast Maynard Road to North Harrison Avenue	13,611,000	670,000	6,397,500	6,543,500	0	0	0	0	0	0	0	0	0
TCAP - South Harrison Avenue Extension	9,250,000	0	0	0	0	0	0	1,250,000	3,000,000	5,000,000	0	0	0
Transportation Feasibility Studies	600,000	0	600,000	0	0	0	0	0	0	0	0	0	0
Total of Road Capacity	253,313,100	35,722,100	11,097,500	12,533,500	7,700,000	9,850,000	5,300,000	8,200,000	15,160,000	43,000,000	30,000,000	41,750,000	33,000,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
TRANSPORTATION													
Special Projects													
Spot Improvements (Based on Levels of Service, Safety and Citizen Concerns)	2,812,500	0	225,000	150,000	250,000	0	275,000	287,500	300,000	312,500	325,000	337,500	350,000
Total of Special Projects	2,812,500	0	225,000	150,000	250,000	0	275,000	287,500	300,000	312,500	325,000	337,500	350,000
Storm Drainage													
Street Storm Drainage System Rehabilitation	4,326,040	926,040	250,000	250,000	0	350,000	350,000	350,000	350,000	350,000	350,000	400,000	400,000
Total of Storm Drainage	4,326,040	926,040	250,000	250,000	0	350,000	350,000	350,000	350,000	350,000	350,000	400,000	400,000
Total of All TRANSPORTATION	413,919,640	36,998,140	21,615,500	33,658,500	20,455,000	37,100,000	19,340,000	21,842,500	27,375,000	54,417,500	41,790,000	53,842,500	45,485,000

Total of Project Category from FY2018 Through FY2028 = 376,921,500

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
WATER													
Acquisition - Land													
New Water Storage Tank Sites	2,250,000	1,000,000	0	0	0	1,250,000	0	0	0	0	0	0	0
Total of Acquisition - Land	2,250,000	1,000,000	0	0	0	1,250,000	0	0	0	0	0	0	0
Equipment													
Heavy Duty Equipment Replacement - Water	2,200,000	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
Total of Equipment	2,200,000	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
Major Maintenance													
ADA Improvements - Water Treatment Facilities	600,000	0	0	0	0	0	0	0	0	0	0	0	600,000
Total of Major Maintenance	600,000	0	0	0	0	0	0	0	0	0	0	0	600,000
Other Water Projects													
Aquastar Additional Infrastructure	225,000	75,000	0	0	75,000	0	0	0	0	75,000	0	0	0
Total of Other Water Projects	225,000	75,000	0	0	75,000	0	0	0	0	75,000	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
WATER													
Water Lines													
Carpenter Fire Station Road Waterline Connection	260,000	0	0	0	0	0	0	0	0	0	260,000	0	0
Extend Water Mains	3,303,757	0	302,447	301,310	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Horton's Creek Road Parallel Waterline	950,000	0	0	0	0	0	0	0	100,000	850,000	0	0	0
Infrastructure GIS Asset Data - Water	200,000	0	200,000	0	0	0	0	0	0	0	0	0	0
Jenks-Carpenter/Holt Road Water Line Reinforcement	4,253,000	3,053,000	1,200,000	0	0	0	0	0	0	0	0	0	0
Maynard Road Water Line Reinforcement - Southeast	1,590,000	0	1,590,000	0	0	0	0	0	0	0	0	0	0
Maynard Road Water Line Reinforcement - Southwest Phase II	520,000	0	520,000	0	0	0	0	0	0	0	0	0	0
Maynard Road Water Line Reinforcement - Southwest Phase I	5,380,000	0	0	0	1,380,000	4,000,000	0	0	0	0	0	0	0
McCrimmon Parkway Connections	800,000	0	0	0	0	0	0	0	0	0	800,000	0	0
McCrimmon Parkway Water Line Connector	1,250,000	0	0	0	0	1,250,000	0	0	0	0	0	0	0
Morrisville Parkway Water Line Connections	350,000	0	350,000	0	0	0	0	0	0	0	0	0	0
NCDOT I-5506 I-40 and Aviation Parkway Water Line Relocation	350,000	0	350,000	0	0	0	0	0	0	0	0	0	0
NCDOT P-5201 Morrisville Parkway Rail Road Grade Separation	338,504	238,504	100,000	0	0	0	0	0	0	0	0	0	0
Optimist Farm Road Water Line - West	888,000	310,000	0	578,000	0	0	0	0	0	0	0	0	0
Pierce Olive Road Water Line	2,269,000	1,070,000	0	0	1,199,000	0	0	0	0	0	0	0	0
Pleasant Grove Church Road Water Line Reinforcement	1,635,000	0	0	0	1,635,000	0	0	0	0	0	0	0	0
Stephenson Road Water Line and Ten-Ten Rd Water Line West	700,000	0	0	125,000	575,000	0	0	0	0	0	0	0	0
Ten-Ten/Bells Lake Road Water Line Connector	2,180,000	0	0	0	0	0	2,180,000	0	0	0	0	0	0
Tryon Road Waterline Upsizing	1,220,000	0	220,000	0	1,000,000	0	0	0	0	0	0	0	0
Upgrade Water Lines	76,500,000	0	5,000,000	5,000,000	5,000,000	6,500,000	7,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000
Wake Road Water Line	500,000	0	0	0	0	500,000	0	0	0	0	0	0	0
Water Line Oversizings	2,084,000	0	160,000	168,000	176,000	185,000	195,000	200,000	200,000	200,000	200,000	200,000	200,000
Water System - Air Release Valve Replacements	750,000	150,000	150,000	150,000	0	0	0	0	0	150,000	0	0	150,000
Water System - Critical Water Line Locating and Testing	2,275,000	350,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Water System - Valve Replacements	1,375,000	0	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000
White Oak Church Road Water Line	2,362,500	0	950,000	0	0	0	0	0	1,412,500	0	0	0	0
Total of Water Lines	114,283,761	5,171,504	11,392,447	6,622,310	11,565,000	13,035,000	9,975,000	8,800,000	10,312,500	9,800,000	9,860,000	8,800,000	8,950,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
WATER													
Water Storage Tanks													
Elevated Water Storage Tank Repainting – Carpenter Tank	750,000	150,000	600,000	0	0	0	0	0	0	0	0	0	0
Harrison Elevated Water Tank Renovation	1,100,000	800,000	300,000	0	0	0	0	0	0	0	0	0	0
Kilmayne Water Storage Tank	7,750,000	7,000,000	750,000	0	0	0	0	0	0	0	0	0	0
Plumtree Tank Modifications & Tank Repainting	2,275,000	2,050,000	225,000	0	0	0	0	0	0	0	0	0	0
Water Storage Tank Repainting - Field Street Tank	700,000	0	0	0	0	0	0	0	0	700,000	0	0	0
Water Storage Tank Repainting – Old Apex Tank	700,000	0	150,000	550,000	0	0	0	0	0	0	0	0	0
Water Storage Tank Repainting - Ridgeview Tank	750,000	0	0	0	0	0	0	0	0	0	750,000	0	0
Total of Water Storage Tanks	14,025,000	10,000,000	2,025,000	550,000	0	0	0	0	0	700,000	750,000	0	0
Water System Management													
Flow Metering throughout Distribution System	500,000	0	0	0	0	0	0	500,000	0	0	0	0	0
Jordan Lake Partnership	807,500	367,500	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Water Main Condition Assessment Program	905,000	325,000	50,000	50,000	50,000	50,000	100,000	50,000	30,000	50,000	50,000	50,000	50,000
Water Resources Master Plan	1,000,000	500,000	0	0	0	0	0	0	100,000	400,000	0	0	0
Water System Master Plan	700,000	0	350,000	0	0	0	0	0	0	0	350,000	0	0
Total of Water System Management	3,912,500	1,192,500	440,000	90,000	90,000	90,000	140,000	590,000	170,000	490,000	440,000	90,000	90,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
WATER													
Water Treatment													
	Cary/Apex Water Treatment Facility - Laboratory Equipment - Atomic Adsorption Unit Replacement	468,608	175,000	0	0	0	0	293,608	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Laboratory Equipment - Total Organic Analyzer Replacement	127,500	50,000	0	0	0	0	0	77,500	0	0	0	0
	Cary/Apex Water Treatment Facility - Phase IV Expansion and Improvements From 56 to 64 MGD	92,000,000	0	0	0	0	0	0	0	0	2,000,000	20,000,000	70,000,000
	Cary/Apex Water Treatment Facility – Caustic Tank Replacements	600,000	0	0	600,000	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Centrifuge Rebuild and Repair	200,000	0	0	0	0	0	0	200,000	0	0	0	0
	Cary/Apex Water Treatment Facility - Chemical Feed System Upgrades of Aging Equipment	200,000	0	0	200,000	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Clearwell Baffle Replacements	750,000	0	0	0	0	0	0	0	0	0	750,000	0
	Cary/Apex Water Treatment Facility - Filter Pipe Gallery Piping Removal	150,000	0	150,000	0	0	0	0	0	0	0	0	0
203	Cary/Apex Water Treatment Facility - Finished Water and Backwash Pump Replacements	500,000	0	0	0	0	0	0	250,000	250,000	0	0	0
	Cary/Apex Water Treatment Facility - Generator Switchgear Upgrades	250,000	0	0	250,000	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Laboratory Information Management System	175,000	0	175,000	0	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Ozone Generator Replacements	5,500,000	0	0	0	0	0	500,000	5,000,000	0	0	0	0
	Cary/Apex Water Treatment Facility - Process Basin Rehab/Restoration	5,000,000	4,000,000	0	1,000,000	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Process Conversion to Ozone/Biofiltration	4,500,000	0	500,000	4,000,000	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Raw Water Line Cleaning	1,800,000	200,000	0	0	500,000	0	0	0	550,000	0	0	550,000
	Cary/Apex Water Treatment Facility - Raw Water Pump Replacements	350,000	0	0	0	0	0	0	0	0	350,000	0	0
	Cary/Apex Water Treatment Facility - Raw Water Pump Station Powder Activated Carbon Feed Pump Replacement	250,000	0	0	0	0	0	0	250,000	0	0	0	0
	Cary/Apex Water Treatment Facility - Residuals Facility Polymer System	300,000	0	0	0	300,000	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Residuals Facility Pump Replacements	500,000	0	0	0	0	0	0	0	0	0	0	500,000
	Cary/Apex Water Treatment Facility - Residuals Transfer Pump Replacements	400,000	250,000	150,000	0	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Sodium Hypochlorite Tank Replacement	1,175,000	0	0	0	0	0	0	175,000	1,000,000	0	0	0
	Cary/Apex Water Treatment Facility - Surge Tanks	720,000	0	720,000	0	0	0	0	0	0	0	0	0
	Cary/Apex Water Treatment Facility - Water System Radio Software and Antennas	400,000	0	400,000	0	0	0	0	0	0	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
WATER													
Raw Water Pump Station Surge Tanks	800,000	0	0	0	0	800,000	0	0	0	0	0	0	0
Total of Water Treatment	117,116,108	4,675,000	2,095,000	5,450,000	1,400,000	800,000	793,608	5,252,500	2,250,000	250,000	2,350,000	20,750,000	71,050,000
Total of All WATER	254,612,369	22,114,004	16,152,447	12,912,310	13,330,000	15,375,000	11,108,608	14,842,500	12,932,500	11,515,000	13,600,000	29,840,000	80,890,000

Total of Project Category from FY2018 Through FY2028 = 232,498,365

Grand Total for FY2018 = 68,573,284

SUMMARY INFORMATION

Grand Total from FY2018 Through FY2028 = 1,050,407,697



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Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
DOWNTOWN												
Special Facilities												
DT - Existing Cary Library and Satellite Building Demolition	100,000	0	0	100,000	0	0	0	0	0	0	0	0
Total of Special Facilities	100,000	0	0	100,000	0	0	0	0	0	0	0	0
Total of All DOWNTOWN	100,000	0	0	100,000	0	0	0	0	0	0	0	0

Total of Project Category from FY2018 Through FY2028 = 100,000

Special Facilities												
Regional Public Safety Training Center	11,355,000	0	1,000,000	10,355,000	0	0	0	0	0	0	0	0
Total of Special Facilities	11,355,000	0	1,000,000	10,355,000	0	0	0	0	0	0	0	0
Stations with Pumpers												
Fire Station 11 (White Oak Church Rd.)	10,276,560	800,000	0	0	0	0	860,200	8,616,360	0	0	0	0
Fire Station 13 (Lewter Shop Rd. @ 751)	12,105,060	0	0	0	0	0	1,662,500	0	0	0	949,960	9,492,600
Total of Stations with Pumpers	22,381,620	800,000	0	0	0	0	2,522,700	8,616,360	0	0	949,960	9,492,600
Total of All FIRE	33,736,620	800,000	1,000,000	10,355,000	0	0	2,522,700	8,616,360	0	0	949,960	9,492,600

Total of Project Category from FY2018 Through FY2028 = 32,936,620

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Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
GENERAL												
Community Projects												
Fiber Optics Cable Plan Implementation - Town Facilities	20,100,000	100,000	0	0	20,000,000	0	0	0	0	0	0	0
Total of Community Projects	20,100,000	100,000	0	0	20,000,000	0	0	0	0	0	0	0
Special Facilities												
911/Emergency Communications Back-Up Center	4,233,500	0	0	0	817,500	3,416,000	0	0	0	0	0	0
Western Cary Police Station	9,250,000	0	0	0	0	0	0	0	0	0	0	9,250,000
Total of Special Facilities	13,483,500	0	0	0	817,500	3,416,000	0	0	0	0	0	9,250,000
Special Facilities for Operations												
USA Facility Maintenance Hub	900,000	0	120,000	780,000	0	0	0	0	0	0	0	0
West District Facility	6,500,000	0	1,000,000	5,500,000	0	0	0	0	0	0	0	0
Total of Special Facilities for Operations	7,400,000	0	1,120,000	6,280,000	0	0	0	0	0	0	0	0
Special Projects												
Aerial Topographic Mapping	800,000	300,000	0	350,000	50,000	0	0	50,000	0	0	50,000	0
Application Software Replacement Project - CAD, Crimes and Firehouse	5,000,000	0	0	0	5,000,000	0	0	0	0	0	0	0
Fiber Optics Cable Implementation - Town Facilities - Short Term	500,000	0	500,000	0	0	0	0	0	0	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
GENERAL													
Historic Town Facility Preservation	4,930,000	0	800,000	1,500,000	1,350,000	1,000,000	280,000	0	0	0	0	0	0
Town Facility Office Space Renovations	1,000,000	0	150,000	850,000	0	0	0	0	0	0	0	0	0
VoIP Telephone Replacement Project	0	0	0	0	0	0	0	0	0	0	0	0	0
Total of Special Projects	12,230,000	300,000	1,450,000	2,700,000	6,400,000	1,000,000	280,000	50,000	0	0	50,000	0	0
Storm Drainage													
Vacuum Jet Truck - Stormwater (New)	350,000	0	0	0	350,000	0	0	0	0	0	0	0	0
Van with CCTV - Stormwater (New)	250,000	0	0	0	250,000	0	0	0	0	0	0	0	0
Total of Storm Drainage	600,000	0	0	0	600,000	0	0	0	0	0	0	0	0
Total of All GENERAL	53,813,500	400,000	2,570,000	8,980,000	27,817,500	4,416,000	280,000	50,000	0	0	50,000	0	9,250,000

Total of Project Category from FY2018 Through FY2028 = 53,413,500

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
PARKS													
Acquisition - Land													
Coronado Village Due Diligence	1,610,000	0	95,000	150,000	150,000	520,000	10,000	610,000	15,000	15,000	15,000	15,000	15,000
Park Land Acquisition	5,250,000	0	5,250,000	0	0	0	0	0	0	0	0	0	0
Total of Acquisition - Land	6,860,000	0	5,345,000	150,000	150,000	520,000	10,000	610,000	15,000	15,000	15,000	15,000	15,000
Greenways													
Annie Jones Greenway Improvements	450,000	0	100,000	0	350,000	0	0	0	0	0	0	0	0
Camp Branch (Churchill Estates) Greenway	1,800,000	0	0	0	0	1,800,000	0	0	0	0	0	0	0
Greenway Road Crossings and Neighborhood Connections	10,700,000	0	0	0	1,200,000	1,200,000	0	1,750,000	0	1,750,000	0	2,400,000	2,400,000
Higgins Greenway - Phase III	1,300,000	0	550,000	0	750,000	0	0	0	0	0	0	0	0
Louis Stephens Drive Greenway (Phase 1 and 2)	4,800,000	0	0	0	1,000,000	0	0	0	800,000	0	3,000,000	0	0
Total of Greenways	19,050,000	0	650,000	0	3,300,000	3,000,000	0	1,750,000	800,000	1,750,000	3,000,000	2,400,000	2,400,000
Parks													
Athletic Field Conversion (WCPSS Fields)	200,000	0	0	0	0	0	200,000	0	0	0	0	0	0
DT - Downtown Remarkable Destination	36,000,000	0	0	0	0	0	0	6,000,000	30,000,000	0	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
PARKS													
Lexie Lane Neighborhood Park Redevelopment	2,650,000	0	0	900,000	0	150,000	0	1,600,000	0	0	0	0	0
Middle Creek School/Park Improvements	7,465,000	0	0	225,000	40,000	0	0	7,200,000	0	0	0	0	0
Mills Park - Future Phases	8,700,000	0	0	0	0	0	600,000	3,000,000	0	1,500,000	0	0	3,600,000
P-002 Neighborhood Park	4,450,000	0	0	0	0	0	450,000	0	4,000,000	0	0	0	0
School/Park Projects	6,300,000	0	1,000,000	0	1,100,000	0	1,200,000	0	1,400,000	0	1,600,000	0	0
Total of Parks	65,765,000	0	1,000,000	1,125,000	1,140,000	150,000	2,450,000	17,800,000	35,400,000	1,500,000	1,600,000	0	3,600,000

Public Art

Public Art - Cary Downtown Train Depot	40,000	0	0	0	40,000	0	0	0	0	0	0	0	0
Public Art - Cary Tennis Park	120,000	0	0	0	0	0	0	120,000	0	0	0	0	0
Public Art - Downtown Park Future Phases	105,200	0	105,200	0	0	0	0	0	0	0	0	0	0
Public Art - Harrison Avenue Bridge	400,000	0	0	50,000	0	350,000	0	0	0	0	0	0	0
Public Art - Higgins Greenway Phase III	35,000	0	35,000	0	0	0	0	0	0	0	0	0	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
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PARKS

Public Art - Jack Smith Park	50,000	0	0	0	5,000	45,000	0	0	0	0	0	0	0
Public Art - Mills Park	80,000	0	16,000	64,000	0	0	0	0	0	0	0	0	0
Public Art - P-002 Neighborhood Park	65,000	0	0	0	0	15,000	0	50,000	0	0	0	0	0
Public Art - Sertoma Renovation	50,000	0	0	50,000	0	0	0	0	0	0	0	0	0
Public Art - TCAP - Walker Street Extension	639,507	100,000	0	0	0	0	0	20,000	519,507	0	0	0	0
Public Art - TCAP - Downtown Round-a-Bouts	220,000	0	0	20,000	200,000	0	0	0	0	0	0	0	0
Public Art - TCAP-Digital Arts Center	110,000	0	0	0	0	0	0	60,000	10,000	40,000	0	0	0
Public Art - USA Baseball Park	215,000	0	0	100,000	0	115,000	0	0	0	0	0	0	0
Public Art -TCAP-Cary Community Art Center Public Art Master Plan	165,000	0	0	0	0	0	0	15,000	150,000	0	0	0	0
Total of Public Art	2,294,707	100,000	156,200	284,000	245,000	525,000	0	265,000	679,507	40,000	0	0	0

Renovations - Park & Greenway

Green Hope Elementary School Park Improvements	597,000	47,000	0	0	0	0	0	0	150,000	0	400,000	0	0
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Town of Cary Capital Listing - Not Programmed/Not Planned Projects

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
PARKS													
Play Area Renovations	3,770,000	0	360,000	500,000	250,000	360,000	325,000	500,000	275,000	275,000	275,000	325,000	325,000
Recreational Facility Improvements - Page Walker	500,000	0	0	0	0	0	500,000	0	0	0	0	0	0
Sertoma Amphitheater Improvements	650,000	200,000	300,000	0	150,000	0	0	0	0	0	0	0	0
Sports Turf Field Development	5,600,000	0	0	2,700,000	0	0	2,900,000	0	0	0	0	0	0
Total of Renovations - Park & Greenway	11,170,000	247,000	660,000	3,200,000	400,000	360,000	3,725,000	500,000	425,000	275,000	675,000	325,000	325,000
Special Facilities													
Cary Tennis Park Expansion on Adjacent Property	6,500,000	0	0	0	0	1,000,000	5,500,000	0	0	0	0	0	0
Hemlock Bluffs Nature Preserve	1,600,000	0	0	0	1,600,000	0	0	0	0	0	0	0	0
Safety Town for Kids	600,000	0	0	0	0	0	100,000	500,000	0	0	0	0	0
Skate Park Improvements	2,664,000	0	0	484,000	0	1,200,000	0	980,000	0	0	0	0	0
Thomas Brooks Park Improvements	2,285,000	0	0	0	40,000	0	0	2,200,000	0	0	0	45,000	0
Total of Special Facilities	13,649,000	0	0	484,000	1,640,000	2,200,000	5,600,000	3,680,000	0	0	0	45,000	0

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Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
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PARKS

Total of All PARKS	118,735,707	347,000	7,811,200	5,243,000	6,875,000	6,755,000	11,785,000	24,605,000	37,319,507	3,580,000	5,290,000	2,785,000	6,340,000
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Total of Project Category from FY2018 Through FY2028 = 118,388,707

Reclaimed Water

Extend Reclaimed Water Mains - FYs 2018, 2019, 2020	443,589	0	140,710	147,746	155,133	0	0	0	0	0	0	0	0
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Total of Reclaimed Water	443,589	0	140,710	147,746	155,133	0	0	0	0	0	0	0	0
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Waste Water Collection

U-5501 Reedy Creek Rd. Sewer line Relocations	50,000	0	50,000	0	0	0	0	0	0	0	0	0	0
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Total of Waste Water Collection	50,000	0	50,000	0	0	0	0	0	0	0	0	0	0
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Total of All SEWER	493,589	0	190,710	147,746	155,133	0	0	0	0	0	0	0	0
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Total of Project Category from FY2018 Through FY2028 = 493,589

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Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
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TRANSPORTATION

Alternate Modes

Study: Train Horn Noise	500,000	0	0	0	0	0	0	0	0	0	0	500,000	0
Transit/Transportation Studies	200,000	0	0	0	0	0	0	200,000	0	0	0	0	0
Total of Alternate Modes	700,000	0	0	0	0	0	0	200,000	0	0	0	500,000	0

Control Systems

Baines Court Cul-de-sac Elimination	250,000	0	0	0	0	0	0	0	0	0	0	0	250,000
Davis Drive Queue Jump Lanes	1,000,000	0	0	0	0	0	0	0	0	0	0	1,000,000	0
Rapid Flashing Beacons at Pedestrian Crosswalks	100,000	0	0	0	0	0	0	0	0	0	0	100,000	0
Traffic Calming	1,032,808	927,808	0	0	0	0	0	30,000	0	35,000	0	40,000	0
Traffic Signal Metal Mast Arm Conversion - Cary Glen Blvd and Green Level Church Road	280,000	0	0	0	0	0	0	0	0	0	0	280,000	0
Total of Control Systems	2,662,808	927,808	0	0	0	0	0	30,000	0	35,000	0	1,420,000	250,000

Major Maintenance

Railroad Grade Crossing Repairs	900,000	0	0	0	0	0	0	0	200,000	700,000	0	0	0
Total of Major Maintenance	900,000	0	200,000	700,000	0	0	0						

Road Capacity

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Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
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TRANSPORTATION

Arthur Pierce Road Widening	4,150,000	0	0	0	0	0	0	0	0	0	0	0	4,150,000
Buck Jones Roadway Reconfiguration	3,500,000	0	0	0	0	0	0	0	0	0	0	3,500,000	0
Carpenter-Upchurch Road Widening	13,000,000	0	0	0	0	0	0	0	0	0	0	13,000,000	0
Davis Drive	3,300,000	0	0	0	0	0	0	0	0	0	0	0	3,300,000
East Chatham Street Widening	9,500,000	0	0	0	0	0	0	0	1,000,000	2,500,000	6,000,000	0	0
Evans Road Widening - Northern Section	14,000,000	0	0	0	0	0	0	0	0	0	0	14,000,000	0
Forest Parkway Extension	3,750,000	0	0	0	0	0	0	0	0	0	0	3,750,000	0
Green Hope School Road Widening	8,500,000	0	0	0	0	0	0	0	1,000,000	1,500,000	6,000,000	0	0
Green Level Church Road Widening - Morrisville Parkway to Green Level West Road	17,500,000	0	0	0	0	0	0	0	0	0	0	17,500,000	0
Green Level Church Widening - North of O'Kelly Chapel Road	9,500,000	0	0	0	0	0	0	0	0	0	0	9,500,000	0
Greenwood Circle Extension	5,300,000	0	0	0	0	0	0	0	0	0	0	0	5,300,000
Holly Springs Road Widening - Phase II (Cary Parkway to Penny Road)	14,500,000	0	0	0	0	0	0	0	0	0	0	0	14,500,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Holly Springs Road Widening - Phase III (Penny Road to Ten Ten Road)	10,000,000	0	0	0	0	0	0	0	0	0	0	0	10,000,000
Holly Springs Road Widening - Phase IV (Ten Ten Road to Kildaire Farm Road)	17,000,000	0	0	0	0	0	0	0	0	0	0	0	17,000,000
Intersection Realignment Jenks-Carpenter Road/High House Road	12,500,000	0	0	0	0	0	0	0	0	0	500,000	2,000,000	10,000,000
Jenks-Carpenter Road Widening (Holt Road to High House Road)	7,500,000	0	0	0	0	0	0	0	1,000,000	1,500,000	5,000,000	0	0
Jones-Franklin Road Widening (North Side Only)	10,500,000	0	0	0	0	0	0	0	1,500,000	3,000,000	6,000,000	0	0
Kingston Ridge Road Extension	500,000	0	0	0	0	0	0	0	0	0	0	0	500,000
Lake Pine Drive Road Widening and Sidewalk Improvements	383,000	133,000	250,000	0	0	0	0	0	0	0	0	0	0
Morrisville-Carpenter Road Widening - Davis Drive to Carpenter Fire Station Road	16,000,000	0	0	0	0	0	0	0	1,500,000	2,500,000	12,000,000	0	0
North Harrison Avenue Interchange Improvements	7,750,000	0	0	0	0	0	0	0	0	0	0	0	7,750,000
Northeast Maynard Road Rail Road Bridge	27,000,000	0	0	0	0	0	0	0	0	0	0	27,000,000	0
Old Apex Road Improvements - Chatham Street to Extraterritorial Jurisdiction	16,000,000	0	0	0	0	0	0	0	1,500,000	3,000,000	11,500,000	0	0
Optimist Farm Road Widening - Pierce Olive Road to Bells Lake Road	4,500,000	0	0	0	0	0	0	0	0	0	0	4,500,000	0

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
TRANSPORTATION													
Rail and Community Cohesion Impact Study - Harrison Avenue Grade Separation	15,165,000	665,000	0	0	0	0	0	0	0	0	0	14,500,000	0
TCAP - Walker Street Extension	33,261,190	7,200,632	0	0	0	0	1,000,000	2,000,000	23,060,558	0	0	0	0
Ten Ten Widening - Holly Springs Road to West Lake Road	11,250,000	0	0	0	0	0	0	0	0	0	0	11,250,000	0
Ten-Ten Road Widening - Kildaire Farm Road to Holly Springs Road	26,000,000	0	0	0	0	0	0	0	0	0	0	26,000,000	0
Trenton Road Widening	21,000,000	0	0	0	0	0	0	0	0	0	0	21,000,000	0
Trinity Road Widening - Trenton Road to Chapel Hill Road	9,000,000	0	0	0	0	0	0	0	0	0	0	9,000,000	0
Trinity Road Widening and Extension	39,000,000	0	0	0	0	0	0	0	4,000,000	10,000,000	25,000,000	0	0
Wake Road Extension/Realignment to Kit Creek Road	7,250,000	0	0	0	0	0	0	0	0	0	0	7,250,000	0
Walnut Street Corridor Improvements - Phase V	7,500,000	0	0	0	0	0	0	0	0	0	0	7,500,000	0
Weldon Ridge Boulevard	1,500,000	0	0	0	0	0	0	0	0	0	0	0	1,500,000
West Chatham Street Widening - Old Apex Road to Old Apex Road	11,500,000	0	0	0	0	0	0	0	1,000,000	2,000,000	8,500,000	0	0
Total of Road Capacity	418,559,190	7,998,632	250,000	0	0	0	1,000,000	2,000,000	35,560,558	26,000,000	80,500,000	191,250,000	74,000,000

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	Project Total	Appropriations to Date	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
TRANSPORTATION													
Special Facilities													
WakeMed Soccer Park - Trinity Road Extension	3,100,000	0	3,100,000	0	0	0	0	0	0	0	0	0	0
Total of Special Facilities	3,100,000	0	3,100,000	0	0	0	0	0	0	0	0	0	0
Total of All TRANSPORTATION	425,921,998	8,926,440	3,350,000	0	0	0	1,000,000	2,230,000	35,760,558	26,735,000	80,500,000	193,170,000	74,250,000

Total of Project Category from FY2018 Through FY2028 = 416,995,558



GLOSSARY OF TERMS

ACCRUAL ACCOUNTING: A basis of accounting in which revenues and expenses are recorded at the time they are incurred, instead of when cash is actually received or disbursed (see funds). For example, in accrual accounting, a revenue earned between June 1 and June 30, but for which payment was not received until July 12, is recorded as earned on June 30 rather than on July 12.

ACCOUNTS: Accounts are used to enter the formally adopted annual operating budget into the general ledger, as well as to organize expenditures and revenues by fund, program, department, activities, etc.

ACREAGE FEES: Fees charged by the gross acre against all property to be developed. Fees start at \$750 per acre for water and sewer for residential development, and increase as density increases. These fees are restricted to Utility Fund projects. These fees were replaced with the Water and Sewer Development Fees in FY 2000.

ACTIVITY: A specific service or unit of work performed.

AD VALOREM TAX (PROPERTY TAX): A tax levied on the assessed value of real, personal, public service and vehicle property located within the Town.

AMORTIZATION: The extinction of a debt through a series of payments over time. This is frequently referred to when discussing the series of loan payments associated with paying down the total amount owed due to funds that were previously borrowed.

APPROPRIATION (BUDGETING): A legal authorization granted by the Town Council to make budgeted expenditures and to incur obligations for purposes specified in the budget ordinances.

ASSESSED VALUATION: A value established for real property for use as a basis for levying property taxes.

BALANCED BUDGET: Occurs when planned expenditures equal anticipated revenues. In North Carolina, it is a requirement that the budget submitted to the Town Council be balanced.

BASE BUDGET ALLOWANCE: Ongoing expense for personnel and replacement of existing equipment to maintain service levels previously authorized by the City Council. A *base budget reduction* reflects discontinuation of a service or program previously approved or a cost decrease to provide the same service level.

BASIS OF ACCOUNTING and BASIS OF BUDGETING: The system under which revenues, expenditures, expenses, and transfers – and the related assets and liabilities – are recognized in accounts and reported in financial statements. Basis of Accounting and Basis of Budgeting specifically relates to the timing of the measurements made. Full Accrual and Modified Accrual are each an accepted Basis of Accounting and Basis of Budgeting. The Town of Cary does not distinguish between Basis of Accounting and Basis of Budgeting. All Town of Cary funds are maintained on a modified Accrual basis.

BIOSOLIDS: Defined as stabilized wastewater organisms, this by-product of wastewater treatment is sold as fertilizer by the Town. Commonly referred to as "sludge."

BOND: A written promise to pay a designated sum of money (the principal) at a specific date in the future, along with periodic interest at a specified rate. The payment on bonds is identified as Debt Service. Bonds are generally used to obtain long-term financing for capital improvements.

BOND ANTICIPATION NOTES (BANS): Short-term interest-bearing notes issued by the Town in anticipation of bonds to be issued at a later date. The notes are retired from the proceeds of the bond issue to which they are related.

BOND/DEBT PROCEEDS: The cash resulting from the sale of debt on the bond market. This cash is used to pay for specific capital projects and is repaid with interest based upon a structured repayment schedule.

BOND FUNDS: Resources derived from issuance of bonds for specific purposes and related Federal project grants used to finance capital expenditures.

BOND RATING: A rating (made by an established bond rating company) from a schedule of grades indicating the probability of timely repayment of principal and interest on bonds issued. Cary has an AAA bond rating from all three major bond rating companies.

BOND REFERENDUM: An election in which registered voters vote on whether the Town will be allowed to issue debt in the form of interest-bearing bonds.

BUDGET: A plan of financial operation embodying an estimate of proposed expenditures for a given period and the proposed means of financing them. Upon approval by the Town Council, the budget appropriation ordinance becomes the legal basis for expenditures in the budget year.

BUDGET DOCUMENT (PROGRAM AND FINANCIAL PLAN): The official written statement prepared by the Town staff reflecting the decisions made by the Council in their budget deliberations.

BUDGET MESSAGE: A general discussion of the budget that provides the Town Council and public with a summary of the most important aspects of the budget, changes from previous fiscal years, and the views and recommendations of the Town Manager.

BUDGET ORDINANCE: A formal legislative enactment by the Town Council. If it is not in conflict with any higher form of law, such as a statute or constitutional provision, it has full force and effect of law within the boundaries of the municipality to which it applies.

BUDGET SCHEDULE: The schedule of key dates or milestones that the Town follows in preparation and adoption of the budget.

CAPITAL IMPROVEMENTS: Major construction, repair of, or addition to buildings, parks, streets, bridges and other Town facilities. Capital Improvements projects cost \$25,000 or more, and have a useful life of more than three years.

CAPITAL IMPROVEMENTS BUDGET: The schedule of project expenditures for the acquisition and construction of capital assets for the current fiscal year.

CAPITAL IMPROVEMENTS PLAN: The annually updated plan or schedule of project expenditures for public facilities and infrastructure (buildings, roads, etc.), with estimated project costs, sources of funding, and timing of work over a ten-year period.

CAPITAL OUTLAY: Vehicles, equipment, improvements, software, and furniture purchased by the Town which individually amount to an expenditure of \$5,000 or more, but less than \$25,000, and which have an expected life of more than one year.

CAPITAL RESERVE FUND: A special fund used as a clearing house for monies being transferred from other funds into capital project accounts.

CO - Certificate of Occupancy: is a document issued by the governing agency, signifying that a newly completed building or dwelling conforms to building code regulations and all pertinent ordinances, by meeting the required health and safety standards, and can thereby be inhabited.

CONTINGENCY ACCOUNT: Account in which funds are set aside for emergency and exceptional expenditures that may become necessary during the year and which have not otherwise been provided for in the context of the annual operating budget.

COUNCIL-MANAGER FORM OF GOVERNMENT: Under this form of government, the Mayor and Council establish policy, while a professional manager and his/her appointees are responsible for governmental operations.

DEBT LIMIT: The maximum amount of outstanding gross or net debt legally permitted. The State of North Carolina forbids cities from incurring debt in excess of 8% of the total assessed valuation of taxable property within the city.

DEBT SERVICE: Payment of long term debt principal, interest, and related costs on borrowed funds such as bonds. Debt service is budgeted and accounted for in the fund in which it is incurred.

DEFERRED COMPENSATION: The Town participates in a supplementary retirement income plan (401-K). In addition to Town contributions, each employee has the option of making additional pre-tax contributions.

DEPARTMENT: A major administrative division of the Town that indicates overall management responsibility for an operation or a group of related operations within a functional area. A department usually has more than one program and may include activities or divisions that are accounted for in different funds.

DEPRECIATION: A method of allocating the cost of a tangible asset other than land over its useful life. For example, the normal life of an asset (e.g. fire truck) might be twenty years. The value of that capital asset decreases, or depreciates, over time. The annual depreciation of fixed assets is reported on the financial statements of funds using the accrual basis of accounting. Depreciation is not an expense that is reported on the budgetary financial statements.

DEVELOPMENT FEES: These fees were developed in FY 1999 to replace acreage fees and connection charges. There is a separate fee for water and sewer. The fees are due at building permit issuance and are used to help offset the cost of infrastructure for projects needed to serve growth.

DEVELOPER REIMBURSEMENT: A special case in which the Town reimburses the developer's contribution for a particular construction project, such as waterline oversizings. In the reverse of this situation, the developer may have to reimburse the Town.

DIVISION: A program or function that falls within the specific functional area assigned to a particular Department. Several Divisions may comprise a single Department.

ENCUMBRANCE: A financial commitment for a contract not yet performed. An encumbrance is charged against an appropriation, and a portion of the appropriation is reserved for the purpose of satisfying the encumbrance. It represents the expenditure the Town will make after performance under the contract is completed and an invoice is served.

ENTERPRISE FUND: A grouping of activities whose expenditures are wholly or partially offset by revenues collected from consumers in the form of fees or charges.

EXPENDITURE: The outlay of or obligation to pay cash; a decrease in net financial resources.

EXTRATERRITORIAL ZONING JURISDICTION (ETJ): A geographic area extending from one to three miles beyond a municipality's corporate limits within which the municipality exercises zoning and subdivision control, and enforces the State Building Code. A municipality assumes this authority only if the county is not enforcing these three types of development regulations.

FINAL BUDGET: Term used to describe revenues and expenditures for the upcoming year beginning July 1 as adopted by the Town Council.

FIXED ASSETS: Assets of a long-term character which are intended to be held or used, such as land, buildings, machinery, furniture, and other equipment.

FISCAL YEAR: Any consecutive twelve-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The Town of Cary's fiscal year runs from July 1 to June 30.

FLEXIBLE SPENDING ACCOUNTS: Town employees have the option of having pre-tax dollars deducted from their paychecks and held in a special account, designated for either medical or child care expenses. Throughout the year, employees can submit claims to their flex accounts, and be reimbursed with their own, pre-tax dollars.

FRANCHISE FEE: A fee paid by public service businesses for use of Town streets, alleys, and property in providing their services to the citizens of a community. Example: The Town charges a Cable Television Franchise Fee to cable television companies serving Cary citizens.

FULL-TIME POSITION: Any employee who receives full benefits and works at least 40 hours per week.

FULL-TIME EQUIVALENT POSITION (FTE): A part-time position converted to the decimal equivalent of a full-time position based on 2,080 hours per year. For example, a seasonal employee working for four months, or 690 hours, would be equivalent to .3 of a full-time position.

FUNCTION: A group of related programs crossing organization (departmental) boundaries and aimed at accomplishing a broad goal or major service.

FUND: An accounting entity with self-balancing accounts. A fund records all financial transactions for specific activities or government functions.

FUND BALANCE: Amounts shown as fund balance represent monies which remain unspent after all budgeted expenditures have been made. North Carolina statutes dictate that a portion of fund balance is not available for appropriation in the following fiscal year. This term is used in relation to governmental funds.

FUND EQUITY: Amounts shown as fund equity represent monies which remain unspent after all budgeted expenditures have been made. This term is used in relation to proprietary funds.

GAAP (Generally Accepted Accounting Principles): Accounting principles that are commonly used in preparing financial statements and generally accepted by the readers of those statements. The authoritative source of GAAP for state and local governments is the Governmental Accounting Standards Board (GASB).

GENERAL FUND: The general operating fund of the Town used to account for all financial resources except those required to be accounted for in another fund.

GENERAL LEDGER: A record containing the accounts needed to reflect the financial position and the results of operations of a government.

GENERAL OBLIGATION BONDS: Debt issued by the Town, repayment of which is backed by full taxing power.

GOAL: A statement of broad direction, purpose or intent based on the needs of the community. A goal is general and timeless; that is, it is not concerned with a specific achievement in a given time period.

GOVERNMENTAL FUND: A fund generally used to account for tax-supported or grant activities that go to the delivery of public goods and services. Examples of government funds are the general fund and the general capital projects fund.

GRANTS: Contributions or gifts of cash or other assets from another government to be used or expended for a specified purpose, activity, or facility.

INSTALLMENT PURCHASE DEBT: The Town may borrow money from financial institutions to purchase an asset through a contract, with the asset serving as a security guarantee for the financial institution.

INTERCEPTOR: A large sanitary sewer collection line.

INTERNAL SERVICE FUNDS: Those funds used to account for the financing of goods or services provided by one Town department to others on a cost reimbursement basis.

INVESTMENT REVENUE: Revenue earned on investments with a third party. The Town uses a pooled cash system, pooling the cash of all funds and investing it in total. The interest earned is then allocated back to the individual funds by the average cash balance in that fund.

LDO (Land Development Ordinance): A compilation of rules and regulations adopted by the Town Council, pursuant to the authority granted to the Town of Cary by the NC General Assembly. This ordinance protects the health, safety, and general welfare of the general public, and it implements the policies of the Cary Comprehensive Plan, which guides development of the physical environment of the Town and its planning jurisdiction.

LGC (Local Government Commission): An agency in the NC State Treasurer's Office which oversees local government bonded debt and assists cities and counties in all areas of fiscal management. The LGC conducts all bond sales, and ensures that local units have sufficient fiscal capacity to repay debt.

LOB (Limited Obligation Bonds): Debt issued by the Town, repayment of which is backed by the asset being financed as a guarantee to investors who purchase the debt on the bond market.

LIABILITIES: Debts or other legal obligations arising out of transactions in the past which must be liquidated, renewed, or refunded at some future date. This term does not include encumbrances.

MDC (Mobile Data Computer): A computer placed in emergency vehicles (specifically designed to perform in vehicles), which provides improved dispatch / response time, communication with station, mapping applications, hazardous material information, field reporting, and location of necessary contact information.

MGD (Million Gallons per Day): A measure used to express the amount of water or wastewater that is treated at the water and wastewater treatment plants.

MODIFIED ACCRUAL: The basis of budgeting and accounting where revenues are recorded when collectable within the current period or soon thereafter to be used to pay liabilities of the current period. Expenditures are recognized when the related liability is incurred.

NET BONDED DEBT: The amount calculated as gross bonded debt less debt service monies available at year-end less debt payable from Enterprise Revenues, which ultimately equates to amounts to be repaid through property taxes.

NOT PLANNED CAPITAL PROJECTS: Capital projects identified for years six through eleven of the Town's planning period that are not being considered for future funding due to cost, priority, or a combination of these factors.

NOT PROGRAMMED CAPITAL PROJECTS: Capital projects with funding needs in years one through five of the Town's planning period for which projected available resources have not been assigned due to cost, priority, or a combination of these factors.

OBJECTIVE: A statement of specific direction, purpose or intent to be accomplished by staff within a program.

OCCUPANCY TAX: A locally administered tax levied on the occupancy of hotel and motel rooms in addition to sales tax. The Wake County Occupancy Tax is 6%. The Chatham County occupancy tax is 3%.

OPERATING BUDGET: The Town's financial plan that outlines proposed expenditures for the coming fiscal year and estimates the revenues that will be used to finance them.

OPERATING FUNDS: Resources derived from recurring revenue sources used to finance ongoing operating expenditures and pay-as-you-go capital projects.

OPERATIONS AND MAINTENANCE EXPENDITURES: Costs other than those for salaries, benefits, and capital outlay that are necessary for the provision of services offered by the Town.

PAYMENT-IN-LIEU: Payments made typically by developers in lieu of donation of recreation land, construction of streets, greenways, etc. This payment is based on appraised values. These funds are restricted to specific types of parks and recreation and transportation projects.

PERSONNEL SERVICES: The expenditure category that includes total costs of all wages, salaries, retirement, and other fringe benefits.

PERFORMANCE MEASUREMENT: Any systematic attempt to learn how responsive a government's services are to the needs of constituents through the use of standards, workload indicators, etc.

PLANNED CAPITAL PROJECTS: Capital projects with funding needs appearing in years six through eleven of the Capital Improvements Budget/Plan. These needs have not been matched with estimated available resources but will be considered for funding as they roll into the Programmed Capital Projects five-year window.

POLICE SEPARATION ALLOWANCE: A separate trust fund, required by state law, to provide a separation allowance for police officers if they retire after age 55 and have served at least 5 years.

POWELL BILL FUNDS: An intergovernmental transfer from the State of North Carolina. These revenues are based on gasoline sales in the state and the number of miles of streets within the Town. These funds must be used for transportation projects.

PRETREATMENT PROGRAM: Industries must obtain a permit and renew it annually in order to discharge into the Town's wastewater system. The program includes sampling charges for monitoring the industry's discharge and surcharges for any discharges exceeding desired limits.

PRIOR YEAR AD VALOREM (PROPERTY) TAXES: Ad Valorem (Property) Taxes that remain unpaid on or after the date they are due. A penalty is included for non-payment.

PRIORITY BASED BUDGETING: Priority Based Budgeting is a leading best practice in local government that provides a comprehensive review of the entire organization, identifying every program offered, identifying the costs of every program, and evaluating the relevance of every program based on the goals the organization is trying to achieve.

PRODUCTIVITY: A measure of the output of Town programs per unit of resource input invested.

PROGRAM: An organized set of related work activities, which are directed toward accomplishing a common goal. Each Town department is usually responsible for a number of related service programs.

PROGRAMMED CAPITAL PROJECTS: Capital projects for which projected available resources have been assigned in the budget year and next four planning years. Only the first year's funds have been appropriated.

PROPERTY TAX (AD VALOREM TAX): A tax levied on the assessed value of real and personal property located within the Town.

PROPRIETARY FUND: A fund used to account for the sale of private goods and services, thus functioning more typically like business-type ventures of a local government. The two types of proprietary funds are the enterprise fund and the internal service fund. The Town of Cary utilizes an enterprise fund to account for its water and sewer operations and an internal service fund to account for its fleet operations.

PUD (Planned Unit Development): A tract of land under single ownership, or under common control evidenced by duly recorded contracts or agreements approved by the Town Council, that is planned and developed as an integral unit in a single development operation or in a programmed series of development operations in accordance with a master land use plan and detailed engineering and architectural plans as approved by Town Council.

REFUNDING: The issuance of long term debt in exchange for, or to provide funds for, the retirement of long-term debt already outstanding. Refunding is essentially the "refinancing" of long-term debt.

RESERVE: A portion of fund balance earmarked to indicate that it 1) is not available for expenditure, or 2) is legally segregated for a specific future use.

RESOURCES: Assets that can be used to fund expenditures. These can be such things as property taxes, charges for service, beginning fund balance, or working capital.

RETAINED EARNINGS: An equity account reflecting the accumulated earning of an enterprise or internal service fund.

REVENUE: Income received from various sources used to finance government services (ex. sales tax revenue).

REVENUE BONDS: Bonds whose principal and interest are payable exclusively from earnings of an Enterprise Fund. Such bonds sometimes contain a mortgage on the fund's property.

REVERSION: The amount of approved budget authority for operating expenditures remaining at the end of a given fiscal year. For example, if the current adopted budget includes \$3 million for expenditures, and only \$2.9 million is spent during the fiscal year, there would be \$100,000 in reversion. Typically, the amount of reversion serves to increase the previously estimated amount of fund balance remaining at the end of the fiscal year because not all of the approved funding was actually expended.

RISK MANAGEMENT: The identification and control of risk and liabilities incurred by a local government to conserve resources from accidental loss.

SERVICE LEVEL TREND: The tracking, over a specified time period, of an output measure showing a workload change or the degree of achievement for stated program objectives.

SEWER DEVELOPMENT FEES: See *Development Fees*.

SPECIAL REVENUE FUNDS: Special Revenue Funds are used to account for resources that are subject

to legal spending restrictions. They are created when a resolution, statute or ordinance requires that specific taxes or special revenue sources are used to finance a particular activity.

SUPPLEMENTAL BUDGET ALLOWANCE: A supplemental budget allowance reflects additional personnel, equipment, and related expenses that increase the size of the work force or the inventory of equipment.

TAX BASE: The total assessed valuation of real property within the Town.

TAX RATE: See *Ad Valorem Tax* or *Property Tax*.

TIPPING FEES: The cost incurred by the Town to deposit garbage in the Wake County Landfill. In FY 2009 the Town has budgeted \$30.00/ton to cover these charges. Effective January 2009, the Town has also budgeted an additional \$2 per ton excise tax that will be due for each ton received at the landfill.

TRANSFER: An appropriation to or from another fund. A transfer is the movement of money from one fund to another to wholly or partially support the functions of the receiving fund.

TRANSPORTATION DEVELOPMENT FEE: Impact fees charged by the Town to developers which are to be used to construct and improve thoroughfares in and around subdivisions. This fee was added during FY 1990 with permission of the State Legislature.

TRANSPORTATION IMPROVEMENT PROGRAM (TIP): A document containing funding information and schedules for State Transportation Projects, including highways, aviation, enhancements, public transportation, rail, bicycle and pedestrians, and the Governor's Highway Safety Program. TIP is the statewide program run by the North Carolina Department of Transportation.

TRUST AND AGENCY FUNDS: These funds are custodial (used to account for assets held by a government in a trustee capacity) and do not involve measurement of results of operations. They are generally limited to instances where legally mandated, or where a formal legal trustee relationship exist. Principal and interest in the funds may be expended in the course of their designated operations.

USER CHARGES: The payment of a fee for direct receipt of a public service by the party benefiting from the service.

UTILITY FRANCHISE TAX: Tax levied by the state on electric, gas, telephone, and street transportation companies. The proceeds are shared with municipalities.

WATER DEVELOPMENT FEES: See *Development Fees*.

WORKLOAD INDICATORS: An indication of the output of a department. It may consist of transactions, products, events, services, or persons served.

EXPLANATION OF ACRONYMS

Acronym	Explanation
ABC	Alcoholic Beverage Commission
ADA	Americans with Disabilities Act
AOB	Annual Operating Budget
AWWA	American Water Works Association
BANs	Bond Anticipation Notes
BARs	Budget Adjustment Requests
BBP	Blood-borne Pathogen
BID	Business Improvement District
BOD	Biochemical Oxygen Demand
CAEF	Certificate of Adequate Educational Facilities
CAFR	Comprehensive Annual Financial Report
CALEA	Commission on Accreditation for Law Enforcement Agencies
CAMPO	Capital Metropolitan Planning Organization
CATA	Certificate of Approved Traffic Analysis
CATV	Cable Access Television
C/A WTP	Cary/Apex Water Treatment Plant
CDBG	Community Development Block Grant funding
CDL	Commercial Drivers License
CFAI	Commission on Fire Accreditation International
CIB	Capital Improvements Budget
CIP	Capital Improvements Plan
CIRC	Citizen Issue Review Commission
CMAQ	Congestion Mitigation and Air Quality
CO	Certificate of Occupancy
COD	Chemical Oxygen Demand
COPs	Certificates of Participation
COPS	Community Oriented Policing Services program of Federal Grants for Police Officers
CSX	Name of railway company
C-Tran	Cary Transit
dba	Doing Business As
DARE	Drug Awareness Resistance Program
DEIS	Draft Environmental Impact Statement
DENR	Department of Environment and Natural Resources
DHIC	Downtown Housing Improvement Corporation
DMV	Department of Motor Vehicles
DOT	Department of Transportation
DS	Development Support
EDC	Economic Development Commission
EDU	Equivalent Dwelling Unit
EECBG	Energy Efficiency and Conservation Block Grant
EEO	Equal Employment Opportunity
EHAP	Employee Housing Assistance Program
E	Exempt
EIS	Environmental Impact Statement
EMS	Emergency Management Services
EPA	Environmental Protection Agency
ESAB	Environmental Services Advisory Board
ETB	Extra Territorial Boundary
ETJ	Extra Territorial Jurisdiction
FCC	Federal Communications Commission
FD	Fire Department
FEMA	Federal Emergency Management Administration
FMD	Facilities Management Division

FM	Force Main
FSE	Food Service Establishment
FOG	Fats, Oils, and Grease program
FT	Full-time
FTE	Full-time Equivalent
FY	Fiscal Year
FYS	Fiscal Years
GA	General Assembly
GAAP	Generally Accepted Accounting Principles
GAC	Granular Activated Carbon
GASB	Governmental Accounting Standards Board
GF	General Fund
GFOA	Government Finance Officers Association
GIS	Geographic Information Systems
GO	General Obligation bonds
GPD	Gallons Per Day
GPS	Geographic Positioning System
GS	General Statutes
HR	Human Resources department
HRSS	High Risk, Safety Sensitive
HVAC	Heating, Ventilation, and Air Conditioning
I&I	Inflow & Infiltration
I&P	Inspections and Permits
IBT	Inter-Basin Transfer
IBNR	Incurred But Not Reported
ISAB	Information Services Advisory Board
ISF	Internal Service Fund
ISO	Insurance Services Organization
ITE	Institute of Transportation
LDO	Land Development Ordinance
LED	Light Emitting Diode
LEED	Leadership in Energy and Environmental Design
LGC	Local Government Commission
LOS	Level of Service
MAPPS	Managing And Planning Performance System
MGD	Million Gallons per Day
MM	Morrisville Merger
MOU	Memorandum of Understanding
MPO	Master Police Officer
N/A	Not Applicable
NE	Non-Exempt
NCDOT	North Carolina Department of Transportation
NCDWQ	North Carolina Department of Water Quality
NCLM	North Carolina League of Municipalities
NCWRF	North Cary Water Reclamation Facility
NFPA	National Fire Protection Association
NPDES	National Pollutant Discharge Elimination System
O&M	Operating and Maintenance
OS	Oversizings
OSHA	Occupational Safety and Health Act and Occupational Safety and Health Administration
P&D	Planning and Development
P&Z	Planning and Zoning
PBB	Priority Based Budgeting
PD	Police Department
PIL	Payment in Lieu
PIO	Public Information Office

PM	Preventive Maintenance
PO	Purchase Order or Police Officer
PRCR	Parks, Recreation and Cultural Resources department
PS	Pump Station
PS&O	Public Safety and Operations
PSA	Public Service Announcement
PT	Part-time
PUD	Planned Unit Development
PW	Public Works
RDU	Raleigh-Durham
RFP	Request for Proposals
RIL	Recreation in Lieu
SCADA	Supervisory Control and Data Acquisition
SCWRF	South Cary Water Reclamation Facility
SF	Square Foot
SS	Sanitary Sewer or Suspended Solids
SPO	Senior Police Officer
SPOT	Small Projects One-hour Turn-around
SR	State Road
SRO	School Resource Officer
SRU	Special Response Unit
SS	Sanitary Sewer
SSO	Sanitary Sewer Oversizing
STM	Storm Drainage Management
T&F	Transportation and Facilities
T-Bill	Treasury Bill
TAZ	Traffic Analysis Zone
TCAP	Town Center Area Plan
TDF	Transportation Development Fee
TDM	Traffic Demand
TIA	Traffic Impact Analysis
TIP	Transportation Improvement Program
TM	Town Manager
TND	Traditional Neighborhood Development
TOC	Town of Cary
TS	Technology Services department
TS-1	Traffic Signal - 1 (refers to a type of traffic signal cabinet)
TS-2	Traffic Signal - 2 (refers to a type of traffic signal cabinet)
TTA	Triangle Transit Authority
UCR	Unified Crime Reporting
UDO	Unified Development Ordinance
UF	Utility Fund
USA	Urban Service Area
UT	Utilities
VLF	Vehicle License Fees
WAS	Waste Activated Sludge
WCPSS	Wake County Public School System
W&S	Water and Sewer
WRF	Water Reclamation Facility
WR-INF	Water Resources-Infrastructure
WR-UT	Water Resources-Utilities
WT	Water Treatment
WTP	Water Treatment Plant
WWMP	Waste Water Master Plan
WWWRF	Western Wake Water Reclamation Facility
WWTP	Waste Water Treatment Plant

