



Capital Improvements Program (CIP)

INTRODUCTION

The Montgomery County Charter (Section 302) requires the County Executive to submit a comprehensive six-year program for capital improvements, called the Capital Improvements Program (CIP), not later than January 15 of each even-numbered calendar year. The Charter requires that the annual capital budget be consistent with the six-year program. In odd-numbered calendar years, the approved CIP, together with any amendments, continues to guide capital investment.

The CIP includes all capital projects and programs for all agencies for which the County sets tax rates or approves budgets or programs. The CIP includes:

- a statement of the objectives of capital programs;
- the relationship of capital programs to the County's long-range development plans;
- recommendations for capital projects and their construction schedules; and
- estimates of costs, anticipated revenue sources, and impacts of the capital program on County revenues and the operating budget.

The County Charter (Section 302) also provides that the CIP may be amended at any time. In practice, amendments to the CIP are limited to conform to the requirement for a biennial, or every other year, CIP. Criteria for amendments generally include: use of funds from external sources; projects which address significant health or safety requirements; and economic development opportunities.

This section summarizes the CIP, its six-year projections of expenditures, and the fiscal policies and funding to support them. The complete County Executive's Recommended Amendments to the CIP are published as a separate document, and may be found at: <http://www.montgomerycountymd.gov/omb/publications>. The complete Approved CIP can be found on the same website.

PROGRAM OBJECTIVES

Capital program goals and objectives for departments within the Montgomery County Government are provided in the program description and objectives subsections contained in the various sections of the Recommended CIP document. For other government agencies (Montgomery County Public Schools, Montgomery College, Maryland-National Capital Park and Planning Commission, Washington Suburban Sanitary Commission, Revenue Authority, and Housing Opportunities Commission), missions are more generally described, citing statutory authority, with agency capital programs supporting those goals. Further detail on the capital program goals and objectives for these agencies is contained in their CIP request documents, which may be obtained directly from each agency.

CAPITAL PROGRAM PLANNING

Planning Policies

Planning for capital improvements is tied to the County's continuing development and growth in population, numbers of households, and businesses. Land use master plans and sector plans for the County's geographic planning areas anticipate needs for roads, schools, and other facilities required by new or changing population. The County continues its efforts to

improve the linkages between County planning activities, the CIP and the Operating Budget.

General Plan and Master Plans and Sector Plans

The General Plan Refinement of FY94 recognizes the importance of establishing priorities for the provision of public facilities. The CIP gives high priority to areas of greatest employment and residential density when allocating public investment. Some County master plans include phasing elements which provide guidance about the timing and sequence of capital facilities to develop a CIP that serves long-range needs. Copies of the County's General Plan and adopted master plans and sector plans may be obtained directly from the Maryland-National Capital Park and Planning Commission (M-NCPPC).

Growth Policy

Overall planning policies involve an interdependence between the CIP as a budgeting document which allocates available public resources according to County priorities and the Growth Policy, the main purpose of which is to manage the location and pace of private development. The development ceiling element of the Growth Policy is designed to affect the staging of development, matching the timing of private development with the availability of public facilities. It identifies the need for public facilities to support private development and constrains the number of private subdivision approvals to those that can be accommodated by existing and programmed public facilities.

In order to guide subdivision approvals under the Adequate Public Facilities Ordinance (APFO), the Growth Policy tests the adequacy of four types of public facilities: transportation; schools; water and sewerage facilities; and police, fire, and health services. Copies of the County's currently approved Growth Policy may be obtained directly from the M-NCPPC website.

Functional Plans

Functional plans anticipate needs for government functions and services ranging from provision of water and sewerage to solid waste disposal, libraries, and fire and rescue services. Other studies assess future educational, health, and human services needs. These plans are analyzed for likely new facilities or service delivery requirements and their potential operating costs which will eventually add to annual operating budgets.

Public Input

The five local Citizens' Advisory Boards are encouraged to provide the County Executive with their development priorities during the preparation of each Capital Improvements Program. The County Council holds public hearings after receipt of the County Executive's Recommended Capital Improvements Program before deliberations on the program begin. All Council worksessions are public, and residents are encouraged to attend to present their views.

Maryland Economic Growth, Resource Protection and Planning Act

The Maryland Economic Growth, Resource Protection and Planning Act requires local governments to review all construction projects that involve the use of State funds, grants, loans, loan guarantees, or insurance for consistency with existing local plans. The County Executive or the requesting agency affirms that all projects which are expected to receive State financial participation conform to relevant local plans. This language appears in the "Disclosures" portion of the relevant project description forms.

County Council and Planning Board Review

During the Council review process, the Planning Board provides comments to the Council regarding conformance with local

plans, and a final determination as to consistency of projects with adopted County plans is made by the County Council. The Council adopts the CIP and approves a list of applicable State participation projects.

Fiscal Policies

Prior to considering specific projects for inclusion in the Capital Improvements Program, Montgomery County develops projections of total resources available to the County as a whole, and to the CIP as a subset of the whole. A variety of assumptions underpin these projections.

Economic Assumptions

Revenue projections depend largely on assumptions regarding economic activity, including employment, income, inflation, interest rates, construction, home sales, and other economic conditions.

Demographic Assumptions

The CIP is based on demographic assumptions resulting from the Metropolitan Council of Governments (COG) Round 8.3 estimates as projected by M-NCPPC. This forecast predicts that the County will continue to experience steady population growth. Besides general population changes, demographic forecasts anticipate a strong growth phase for elementary school enrollment; middle school and high school enrollment are following close behind as the swell of elementary students move up.

Debt Capacity

To maintain its AAA bond rating, the County considers the following guidelines in deciding how much additional County general obligation debt may be issued in the six-year CIP period:

- Total debt, both existing and proposed, should be kept at about 1.5 percent of full market value (substantially the same as assessed value) of taxable real property in the County.
- Required annual debt service expenditures should be kept at about ten percent of the County's total tax supported operating budget. The tax supported operating budget excludes proprietary funds and grants.
- Total debt outstanding and annual amounts issued, when adjusted for inflation, should not cause real debt per capita (i.e., after eliminating the effects of inflation) to rise significantly.
- The rate of repayment of bond principal should be kept at existing high levels and in the 60-75 percent range during any ten-year period.
- Total debt outstanding and annual amounts proposed should not cause the ratio of per capita debt to per capita income to rise significantly above its current level of about 3.5 percent.

The debt capacity schedule is displayed later in the Debt Service section.

Spending Affordability Assumptions

The County Charter (Section 305) requires that the Council adopt spending affordability guidelines for the capital and operating budgets. Spending affordability guidelines for the CIP have been interpreted in County law to be limits on the amount of general obligation debt and Park and Planning debt that may be approved for expenditure in the CIP. Spending affordability guidelines are adopted in odd-numbered calendar years, and limit the amount of general obligation debt that may be approved for the first year, the second year, and for the entire six years of the CIP. Similar provisions cover the bonds issued by M-NCPPC.

The Montgomery and Prince George's County Councils adopt one-year spending limits for Washington Suburban Sanitary Commission (WSSC). These spending control limits include guidelines for new debt and annual debt service.

General Obligation Debt Limits

General obligation debt usually takes the form of bond issues. General obligation debt pledges general tax revenue for repayment. Montgomery County has maintained a AAA rating, the highest quality rating available, for its general obligation bonds. This top rating by Wall Street rating agencies, enjoyed by very few local governments in the Country, assures Montgomery County of a ready market for its bonds and the lowest available interest rates on that debt.

IMPACT OF CAPITAL PROGRAM ON THE OPERATING BUDGET

Most capital improvement projects generate future operating budget costs in one or more of three ways: debt service; current revenues which fund projects not eligible for debt financing, and PAYGO which offsets the need to issue debt; and changes to the Operating Budget to support new or renovated facilities.

Debt Service

The annual payment of principal and interest on general obligation bonds and other long-term and shorter-term debt used to finance roads, schools, and other major projects is included in the operating budget as a required expenditure. The FY18 tax-supported debt service, as displayed later in the Debt Service section, is approximately \$408.2 million.

Current Revenue and PAYGO

Certain CIP projects are funded directly with County current revenues to avoid costs of borrowing. These amounts are included in the operating budget as specific transfers to individual projects within the capital projects fund. PAYGO, or "pay as you go" funding, is an additional amount included in the operating budget as a direct bond offset to reduce the amount of borrowing required for project financing. The FY18 Current Revenue and PAYGO are displayed in Schedule A-3 and approximate \$83.9 million.

Operating Budget Impacts (OBI)

The construction of government buildings and facilities usually results in new annual costs for maintenance, utilities, and additional staffing required for facility management and operation. Whenever a new or expanded facility involves program expansion, as with new school buildings, libraries, or fire stations, the required staffing and equipment (principals, librarians, fire apparatus) represent additional operating budget expenditures.

The CIP includes analysis of these operating budget impacts to aid in review and decisions on the timing of public facilities and to more clearly show what a new building or road will cost in addition to its construction costs and any required debt service. The project description forms published in the Recommended FY17-22 Amended CIP, display operating budget impacts of individual projects where applicable. The following chart summarizes the impact of the Recommended FY17-22 Amended CIP on the operating budget expenditures of the related departments.

COUNTY GOVERNMENT OPERATING BUDGET IMPACTS BY DEPARTMENT AND FUND (\$000s)

Fund/Department	FY17	FY18	FY19	FY20	FY21	FY22
County General Fund						

General Service & Transportation	658	621	69	(2,843)	(2,887)	(3,148)
Health and Human Services	1,006	1,329	1,352	2,220	2,229	2,229
Police	701	865	865	865	865	865
Public Libraries	2,065	2,065	3,033	2,977	2,977	2,977
Technology Services	2,028	66	(2,706)	(2,706)	(2,706)	(2,706)
Mass Transit						
Transit Services	4,018	4,950	1,893	1,893	1,864	1,864
Fire						
Fire and Rescue Service	486	541	271	271	271	540
Recreation						
Recreation	772	757	837	2,581	2,408	2,820
Water Quality Protection Fund						
Environmental Protection	643	1,124	552	1,124	2,059	1,830
Total	12,377	12,318	6,166	6,382	7,080	7,271

PROJECT COST PROJECTIONS

Departments and agencies estimate the cost of each proposed capital project in current dollars. For the most part, County agencies use contracted cost estimators to develop project costs, and those estimates are reviewed and verified by County staff. Recent cost changes for construction commodities have been included, and projects are escalated to the mid-point of construction. Inflation is estimated separately, and funds are set aside to allow for inflation-driven cost increases in later years. During each even-numbered calendar year, all existing and proposed projects are reviewed centrally for changes to cost, scope and timing, and adjusted as necessary.

The County Charter (Section 307) provides for supplemental appropriations to address interim project cost increases. Unappropriated resources are set aside during the fiscal planning process to fund potential cost increases or for new projects which address urgent needs.

REVENUE SOURCES

The major revenue sources for the Capital Improvements Program are described in the Fiscal Policy section of the County Executive's Recommended CIP. There are three major types of revenue sources for the capital improvements program: current revenues (including PAYGO); proceeds from bonds and other debt instruments; and grants, contributions, reimbursements, or other funds from intergovernmental and other sources. In some cases, where both a public and a private goal may be achieved, the County enters partnerships with the private sector to finance and construct public facilities.

The specific funding sources for all expenditures are identified on each individual capital project description form.

Current Revenues

Current revenues from the General Fund are used for designated projects which involve broad public use and which fall outside any of the specialized funds. Generally, current revenues are used for the planning of capital projects.

PAYGO is current revenue set aside annually in the operating budget, but not appropriated. PAYGO is used to replace bonds for debt-eligible expenditures ("pay-as-you-go" financing) or when projects are not debt eligible or not eligible for tax-exempt financing. The County generally allocates PAYGO of at least ten percent of general obligation bonds planned for issue each

year.

Bond Issues and Other Public Agency Debt

Bonds are used to spread the cost of construction of a public facility over time, such that those who benefit from it over time share in the costs. The County government and four of its Agencies are authorized by State law and/or County Charter to issue debt to finance CIP projects. This debt may be either general obligation or self-supporting debt.

County government general obligation bonds are issued for a wide variety of functions such as transportation, public schools, community college, public safety, and other programs. These bonds are legally-binding general obligations of the County and constitute an irrevocable pledge of its full faith and credit and unlimited taxing power. The money to repay general obligation debt comes primarily from general revenues, except that debt service on general obligation bonds, if any, issued for projects of Parking Districts, Liquor, or Solid Waste funds is supported from the revenues of those enterprises.

M-NCPPC is authorized to issue general obligation bonds, also known as Park and Planning bonds, for the acquisition and development of local and certain special parks and advance land acquisition, with debt limited to that supportable within tax rates established for the Commission.

County Revenue Bonds are bonds authorized by the County to finance specific projects such as parking garages and solid waste facilities, with debt service to be paid from pledged revenues received in connection with the projects. Proceeds from revenue bonds may be applied only to costs of projects for which they are authorized. They are considered separate from general obligation debt and do not constitute a pledge of the full faith and credit or unlimited taxing power of the County.

County revenue bonds have been used in the Bethesda and Silver Spring Parking Districts, supported by parking fees and fines together with parking district property taxes. County revenue bonds have also been issued for County Solid Waste Management facilities, supported with the revenues of the Solid Waste Disposal system.

The Montgomery County Revenue Authority has authority to issue revenue bonds and to otherwise finance projects through notes and mortgages with land and improvements serving as collateral. These are paid through revenues of the Authority's several enterprises, which include golf courses and the Montgomery County Airpark.

The County also uses the Revenue Authority as a conduit for alternative CIP funding arrangements for swim centers and the construction of the Montgomery County Conference Center. The County has entered into long-term leases with the Revenue Authority, and the County lease payments fund the debt service on these Revenue Authority bonds.

Other, specialized bonds are used to finance a variety of public infrastructure, including water distribution and sewage collection lines and required support facilities, stormwater management, and affordable housing. These bonds are paid from non-tax sources including user charges and mortgages, which also cover all operating costs.

Intergovernmental Revenues

CIP projects may be funded in whole or in part through grants, matching funds, or cost sharing agreements with the Federal government, the State of Maryland, the County's incorporated municipalities, or regional consortia such as the Washington Metropolitan Area Transportation Authority (WMATA) and the Washington Area Sewer Authority (WASA).

Federal Aid. Major projects that involve Federal aid include Metro, commuter rail, interstate highway interchanges, bridges, and various environmental construction or planning grants. Most Federal aid is provided directly to the State, and then redistributed to local jurisdictions.

Community Development Block Grant (CDBG) funds are received through annual formula allocations from the U.S. Department of Housing and Urban Development in response to a County application and are used for neighborhood

improvements and facilities in areas where there is significant building deterioration, economic disadvantage, or other need for public intervention in the cycles of urban growth and change.

State Aid includes grants, matching funds, and reimbursements for eligible County expenditures for local projects in public safety, environmental protection, courts and criminal justice, transportation, libraries, parkland acquisition and development, community college, and public school construction.

Municipal Financing. Some projects with specific benefits to an incorporated municipality within the County may include funding or other financing from that jurisdiction. Incorporated towns and municipalities, specifically Rockville, Gaithersburg, and Poolesville, have their own capital improvements programs and may participate in County projects where there is shared benefit.

Other Revenue Sources

The use of other revenue sources to fund CIP projects is normally conditioned upon specific legislative authority or project approval, including approval of appropriations for the projects. Approval of a project may be contingent upon actual receipt of the revenues planned to fund it, as in the case of private contributions that are not subject to law or agreement.

EXAMPLES OF CAPITAL PROJECTS

The CIP addresses the County's needs for basic infrastructure, education, transportation, and other critical facilities in the following ways:

A Responsive and Accountable County Government

- Renovate the historic Grey Courthouse and consolidate leased facilities in the Rockville Core area.
- Repair the concrete deck, structural steel, drains, post-tensioned concrete tendons, and curbs of the Council Office Building Garage.
- Increase funding for Planned Life Cycle Asset Replacement to maintain and "refresh" aging County facilities.
- Continue to replace aging County building roof systems, parking lots, HVAC and electrical systems, and elevator systems.
- Replace outdated and vulnerable information systems.
- Continue to provide funding for the Americans with Disabilities Act (ADA): Compliance project to ensure County buildings and facilities are in compliance with Title II of Americans with Disabilities Act (ADA).

Affordable Housing in an Inclusive Community

- Provide \$177 million for the Affordable Housing Acquisition and Preservation program, exceeding by \$77 million the County's goal of providing \$100 million in funding for public/private partnerships to maintain and grow the stock of affordable housing. Funding of \$21.3 million in taxable bonds and \$12 million in loan repayments will be used in FY17 and FY18 to continue the County's commitment to the creation and preservation of affordable housing units for low-income residents, including the senior population.
- Support Public Housing Improvements through the Supplemental funds for Deeply Subsidized HOC Owned Units Improvements project and demolition of vacant properties to avoid blight in the surrounding neighborhoods.
- Support the preservation and expansion of affordable housing at Elizabeth Square.
- Continue funding for facade easements in the Burtonsville area.
- Complete installation of Sprinkler Systems for HOC Elderly Properties in FY17.
- Continue funding for commercial revitalization of the Colesville/New Hampshire Avenue corridor to support existing

small businesses and create new opportunities for private investment.

An Effective and Efficient Transportation Network

- Construct south entrance for the Bethesda Metrorail Station in coordination with the Purple Line project.
- Provide oversight and financial support for the Purple Line light rail project which will provide significant economic and mobility benefits.
- Complete facility planning for the bus rapid transit system on MD 355.
- Provide capital funding of \$21.5 million to construct a high-quality Bus Rapid Transit (BRT) on US 29 that leverages \$10 million of Federal TIGER funds.
- Replace 26 Ride On buses in FY18.
- Continue efforts to improve the condition of Ride On bus stops and transit park and ride lots.
- Support the redevelopment of White Flint and continue funding of \$163 million for the planning and design, and construction of roadway improvements in the White Flint District.
- Add a new Bethesda Transportation Infrastructure Development project to develop cost estimates for needed transportation infrastructure such as roads, intersection improvements, and pedestrian and bikeway facilities. These cost estimates will be used to develop local area transportation review rates which developers will pay to help fund the construction of the needed infrastructure.
- Continue funding for design and land acquisition for Observation Drive Extended, a north-south road extension of existing Observation Drive, connecting north Germantown to Clarksburg.
- Continue funding of Goshen Road South which will support the Gaithersburg/Montgomery Village area and complete the construction of Snouffer School Road and Snouffer School Road North (Webb Tract) to improve traffic congestion and safety.
- Continue funding of Montrose Parkway East which will improve access to the White Flint area and Interstate 270.
- Continue transportation improvement partnerships with developers to support development in the Clarksburg area.
- Provide funding to the City of Rockville to complete construction of Maryland/Dawson Extended to support continued development in the Rockville Town Center.
- Complete the construction of Platt Ridge Drive Extended and Seminary Road Intersection Improvements.
- Provide annual funding for Intersection and Spot Improvements to address pedestrian safety and capacity issues.
- Continue efforts to modernize central traffic signal control system to provide additional capabilities and tools to optimize traffic flow, including implementation of a pilot Adaptive Traffic Control System (ATSC) to evaluate demand-based traffic signaling and Traffic Signal Prioritization (TSP) to support express bus service.
- Maintain funding in the early years of the six-year program for the residential and rural roads resurfacing program.
- Continue funding of two Purple line-related projects, the Capital Crescent Trail and the Silver Spring Green Trail.
- Continue funding of the Metropolitan Branch Trail, including a grade-separated bridge over Georgia Avenue.
- Construct a new shared-use path along MD 355 in Clarksburg to provide connectivity with the Frederick Road Bike Path, Little Bennett Regional Park, Clarksburg Town Center, and Clarksburg High School.
- Provide initial design funding for the new Life Sciences Center Trail Loop project to leverage outside funding and meet one prerequisite of Stage 2 for the Great Seneca Science Corridor Master.
- Increase funding for Bridge Renovations to address failing culverts to prevent imminent failure, maintain our transportation network, and ensure public safety.
- Maintain funding for previously approved Gold Mine Road, Piney Meetinghouse Road, Park Valley Road, Lyttonsville Place, and Pennyfield Lock Road bridges.
- Fund new Dennis Avenue Bridge project to address flooding and improve safety.

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- As part of the County's leading efforts to improve water quality, continue to repair or replace failed storm drain outfalls, pipes, and culverts.

Children Prepared to Live and Learn

Montgomery County Public Schools:

- Allocate \$1.73 billion to Schools - the recommended CIP's largest expenditure category. Local funding for school construction and technology total \$1.42 billion. This level of funding will support new schools, school additions, and renovations as well as provide significant investment in countywide infrastructure.
- Address capacity needs resulting from higher enrollment by funding two new elementary schools, two new middle schools, and planning and/or constructing additional twenty elementary schools, six middle schools, and five high schools.
- Maintain funding for MCPS' countywide infrastructure projects including the \$69 million MCPS/M-NCPPC Maintenance Facility and MCPS Bus Depot Maintenance Facility.
- Other CIP projects which benefit MCPS programs include: Pedestrian Safety Program, Transportation Improvements for Schools, FiberNet, Ballfields Initiatives (M-NCPPC), and the Kennedy-Shriver Aquatic Center Building Envelope Improvement.
- Complete construction and fund design and construction of Linkages to Learning Centers, Child Care Centers, and a High School Wellness Center to provide social and health services for students and families in need; to offer quality child care programs; and to provide health services, counseling, and positive youth development at elementary and high schools for at-risk students.

Montgomery College:

- Complete the Science West Building Renovation, the Rockville Parking Garage, and the Germantown Science & Applied Studies Phase 1 Renovation project (completion in Spring 2018).
- Sustain College infrastructure projects such as Elevator Modernization, Planned Lifecycle Asset Replacement, Roof Replacement, and Site Improvements at the requested levels, to improve facilities and safety on all three campuses.
- Fund construction and/or design for the Takoma Park/Silver Spring Math & Science Center and the Germantown Student Services Center to expand classroom space and access to advising, registration, and other services.
- Continue to address space deficits on the College's Rockville campus by maintaining construction funding for the Rockville Student Services Center project.
- Assume \$70.0 million in State aid, with \$21.2 million in FY18 for Montgomery College.

Healthy and Sustainable Communities

- Continue the planning and implementation of stormwater controls, public outreach, stream monitoring, and other actions needed to comply with the County's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS-4) permit, which will significantly enhance the County's efforts to improve water quality in local streams and ultimately the Chesapeake Bay.
- Construct new stormwater management facilities and retrofit old stormwater controls to prevent property damage, improve water quality, and protect habitat.
- Expand the design and construction of environmentally friendly stormwater management techniques known as environmental site design (ESD) or low impact development (LID) throughout the County, including County facilities.
- Continue to repair damaged stream channels and tributaries in stream valley parks and priority watersheds.
- Fund the Wheaton Regional Dam Flooding Mitigation and Dennis Avenue Bridge projects, to address flooding issues

upstream of the Wheaton Dam.

- Provide funds to design and construct a replacement facility for the existing Avery Road Treatment Center through a public-private partnership with assistance from the State to provide residential substance abuse treatment for low-income County residents. The project leverages \$5.0 million from the private sector, and will preserve vital residential abuse treatment capacity at reduced taxpayer expense. Moreover, it will result in new substance abuse and mental health outpatient capacity, so critical given the growing heroin and opioid epidemic at no operating or capital cost to the County.
- Complete construction of the new Dennis Avenue Health Center to improve clinical services to County residents.
- Complete a new Progress Place Services Center to create co-located personal living quarters for medically vulnerable and chronically homeless individuals.
- Complete construction of Child Care Centers at Wheaton Woods and Brown Station Elementary Schools, and add funds to design and construct a Child Care Center at Burtonsville Elementary School.
- Complete construction of a Linkages to Learning Center at Wheaton Woods Elementary School, and design and construct a Linkages to Learning Center at Maryvale Elementary School to provide social and health services for students and families in need. Provide funds to purchase and install a modular restroom unit adjacent to the existing portable Linkages to Learning unit at South Lake Elementary School.
- Construct a High School Wellness Center (HSWC) to provide health services, counselling, and positive youth development at Seneca Valley High School.
- Provide funds for five new parks projects at Caroline Freeland Urban Park, a new cricket field at the South Germantown Recreational Park, Hillandale Local Park, Little Bennett Regional Park and Ovid Hazen Wells Recreational Park.
- Complete Laytonia Recreational Park, Brookside Gardens Master Plan Implementation, Rock Creek Maintenance Facility, Falls Road Local Park, Kemp Mill Urban Park, and Western Grove Urban Park.
- Continue funding for hard surface trail renovations, Enterprise facility improvements, stream protection, Pollution Prevention and Repairs to Ponds and Lakes, Energy Conservation - Local and Non-local Parks, levels for ADA Compliance: Local Parks, Enterprise facility improvements, hard surface trail renovations, Planned Lifecycle Asset Replacement projects to upgrade park infrastructure, and Minor New Construction -Local Parks and Non-local Parks.
- Continue construction of improvements to wastewater treatment and solids handling facilities at the regional Blue Plains Advanced Wastewater Treatment Plant to achieve environmental goals and improve efficiency.
- Continue the Large Diameter Water Pipe & Large Valve Rehabilitation Program, the Trunk Sewer Reconstruction Program and a high level of replacement of small diameter water mains to protect the County's water and sewer system.

Safe Streets and Secure Neighborhoods

- Add a new project to begin planning and design for future new Fire Stations in high need areas.
- Design and construct a new White Flint Fire Station to replace Rockville Station #23 to support the development in White Flint.
- Complete design and construct a permanent Clarksburg Fire Station.
- Continue Fire apparatus replacement. During the six-year period, it is anticipated that the following units will be replaced: 5 aerials, 48 EMS units, 22 engines, 3 all-wheel drive brush/wildland pumpers, 4 rescue squads, and 1 tanker.
- Relocate the Glenmont Fire Station #18 and expand and renovate the Kensington (Aspen Hill) Fire Station #25.
- Funds are included to upgrade and modernize the Fire Station Alerting System.
- Design and construct a new 2nd District Police Station on Rugby Avenue to replace the existing station.
- Upgrade and modernize the Public Safety Communication System.

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- Plan and design the Criminal Justice Complex which will serve as the Intake Unit for processing detainees, and provide psychological and medical screening, classification, initial care, custody, and security of inmates for up to 72 hours prior to transfer to the Montgomery County Correctional Facility in Clarksburg.
 - Design and construct the renovation and addition of the kitchen and dining area at the County's Pre-Release Center while also leveraging State funds.
 - Complete construction of a new Public Safety Training Academy to serve the Fire and Rescue Service, the Department of Police, and the Department of Transportation.

A Strong and Vibrant Economy

- Continue funding for the Smart Growth Initiative to move County facilities so that private, transit-oriented mixed use can occur near the Shady Grove Metro Station.
- Provide funding for the White Oak Science Gateway Redevelopment Project, for planning, design, transportation infrastructure, and coordination work to develop the White Oak industrial area into a dense mixed-use commercial and residential center.
- The Wheaton Redevelopment project provides private residential and/or commercial development, a new headquarters for the Maryland-National Capital Park and Planning Commission, offices for the Mid-County Regional Services Center and other County Government agencies, a town square, and parking. This project is critical to the County's economic development goals and the long-term economic vitality of Wheaton.
- Provide funds to support multi-departmental planning efforts to identify and plan for redevelopment opportunities impacted by the construction of the Purple Line in the Long Branch Sector Plan area.
- Utilize a variety of revenue sources, including developer contributions to purchase agricultural and conservation easements through an enhanced farmland preservation program tool to further protect land where development rights have been retained in the Rural Density Transfer Zone.

Vital Living for All of Our Residents

- Construct a combined Library and Community Recreation Center in Wheaton.
- Rehabilitate and renovate the Noyes Library for Children in partnership with the Noyes Foundation.
- Provide funding for planning and schematic design for a new library in the Clarksburg community.
- Completed efforts to refresh the Twinbrook and Kensington Park branches. Refresh projects are underway at the Davis, Little Falls, and Aspen Hill Branches. Plan and implement refresh projects in FY17 at White Oak, Bethesda, and Quince Orchard branches.
- Continue implementation of a 21st Century Library Enhancements project to respond to customer demands and library trends that require changes in the equipment and related furnishings of library buildings.
- Co-locate a new South County Regional Recreation and Aquatic Center with the Housing Opportunities Commission Elizabeth Square affordable housing project in the transit-rich Silver Spring urban core.
- Completed the North Potomac Community Recreation Center and the Ross Boddy Neighborhood Recreation Center in Fall 2016.
- Construct the Good Hope Neighborhood Recreation Center with a new performing arts component with estimated completion in FY19.
- Repair and replace masonry, windows, and other building envelope components of the Eunice Kennedy-Shriver and Sargent Shriver Aquatic Center.
- Fund repairs to the Strathmore Mansion in FY17, including interior wall repairs and painting due to water damage, exterior repairs, restoration, painting, and other interior repairs.
- Continue funding for Capital Improvement Grants for the Arts and Humanities Organizations.

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- Enhance the irrigation system at Rattlewood Golf Course to address water issues.
 - Continue to implement the Federal Aviation Administration's capital improvement plan for the Montgomery County Airpark.
 - Support the Revenue Authority's modifications to the clubhouse food service areas, irrigation, and clubhouse seating improvements to Falls Road, Little Bennett, Needwood, Northwest, and Poolesville golf courses.
 - Fund a new project to construct restrooms and a grille/snack bar area near the ninth tee of the Hampshire Green Golf Course.

■ EXPLANATION OF THE CHART WHICH FOLLOWS

Expenditure Summary by Category and Sub-Category

This is a program expenditure summary report for the County Executive's Recommended FY17-22 Amended CIP, as recommended on January 15. That document contains project description forms for each amended capital project which include a description, programmed expenditures, and funding sources.

All Agency Funding Summary

This is a summary report listing recommended funding support from all sources for the County Executive's Recommended FY17-22 Amended CIP, as recommended on January 15. That document contains project description forms for each amended capital project which include a description, programmed expenditures, and funding sources.

Expenditures Summary by Category, Sub-Category (\$000s)

	Total Thru FY16	Rem FY16	6 Year Total	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs	Approp.
General Government											
County Offices and Other Improvements	761,692	318,574	110,997	76,370	74,340	55,255	43,637	36,278	36,975	7,266	29,032
Technology Services	97,890	69,432	1,540	4,973	4,570	4,520	4,430	4,249	4,176	0	4,570
Other General Government	61,987	7,396	18,807	4,000	4,000	4,000	4,000	4,000	4,100	11,684	0
Technology Investment Fund	1,279	1,252	27	0	0	0	0	0	0	0	0
Economic Development	288,597	31,166	2,410	39,744	63,491	80,573	38,893	16,160	16,160	0	1,120
General Government	1,211,446	427,820	630,894	127,087	146,401	144,348	90,960	60,687	61,411	18,950	34,722
Public Safety											
Fire/Rescue Service	264,212	87,725	32,510	30,864	20,898	11,535	14,971	35,316	30,393	0	12,116
Police	69,913	59,633	574	4,356	5,175	175	0	0	0	0	0
Correction and Rehabilitation	19,261	8,022	1,195	1,488	3,008	4,010	1,538	0	0	0	5,420
Other Public Safety	417,565	399,946	13,609	3,960	50	0	0	0	0	0	0
Public Safety	770,951	555,326	47,888	40,688	29,131	15,720	16,509	35,316	30,393	0	17,536
Transportation											
Roads	1,015,348	321,000	47,781	36,907	36,221	50,153	47,011	54,013	43,591	378,671	49,538
Bridges	76,943	32,817	10,589	11,551	13,741	2,208	2,119	2,006	1,912	0	6,634
Pedestrian Facilities/Bikeways	373,297	49,496	15,008	46,657	53,243	54,149	50,270	18,679	18,976	66,819	27,781
Traffic Improvements	223,387	116,852	12,339	14,595	18,121	14,620	15,620	15,620	15,620	0	18,121
Parking	106,388	59,555	8,491	6,261	8,619	6,776	5,847	5,292	5,547	0	5,949
Mass Transit	825,382	417,985	39,411	84,562	62,970	78,544	52,890	49,152	39,333	535	62,970
Highway Maintenance	469,529	273,291	14,553	27,985	28,650	22,050	33,400	34,550	35,050	0	28,650
Transportation	3,090,274	1,270,996	148,172	228,518	221,565	228,500	207,157	179,312	160,029	446,025	199,643
Health and Human Services											
Health and Human Services (SC41)	67,630	45,193	6,473	7,723	5,436	2,466	339	0	0	0	2,037
Health and Human Services	67,630	45,193	6,473	7,723	5,436	2,466	339	0	0	0	2,037
Culture and Recreation											
Recreation	162,316	70,413	10,772	14,543	15,063	26,584	13,511	8,704	1,140	1,586	50,569
Libraries	212,309	112,583	12,064	40,565	27,895	5,577	3,950	5,014	4,661	0	-2,929
Culture and Recreation	374,625	182,996	22,836	55,108	42,958	32,161	17,461	13,718	5,801	1,586	47,640
Conservation of Natural Resources											
Storm Drains	45,538	26,574	2,128	2,806	2,806	2,806	2,806	2,806	2,806	0	1,952
Stormwater Management	446,949	70,933	28,808	57,487	55,629	65,854	67,972	54,030	46,236	0	36,395
Aq Land Preservation	10,059	5,359	92	2,108	494	494	494	504	514	0	494
Conservation of Natural Resources	502,546	102,866	31,028	62,401	58,929	69,154	71,272	57,340	49,556	0	38,841
Community Development and Housing											
Community Development	18,596	9,195	6,101	675	725	775	875	125	125	0	725
Housing (SC69)	177,025	111,846	31,940	16,239	17,000	0	0	0	0	0	17,000
Community Development and Housing	195,621	121,041	38,041	16,914	17,725	775	875	125	125	0	17,725

Expenditures Summary by Category, Sub-Category (\$000s)

Run Date: 02/03/2017 10:50 AM

	Total	Thru FY16	Rem FY16	6 Year Total	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs	Approp.
M-NCPPC												
Acquisition	141,542	71,110	23,881	39,520	6,420	6,420	6,670	6,670	6,670	6,670	7,031	5,420
Development	296,003	72,727	31,571	145,318	24,169	23,884	21,504	24,295	28,975	22,891	46,387	21,497
M-NCPPC	437,545	143,837	55,452	184,838	30,589	30,104	28,174	30,965	35,645	29,361	53,418	26,917
Revenue Authority (C14)												
Golf Courses	9,885	6,729	60	3,096	891	709	190	0	600	706	0	35
Miscellaneous Projects (Revenue Authority)	60,748	38,560	688	21,500	3,900	5,200	1,800	2,000	8,600	0	0	0
Revenue Authority (C14)	70,633	45,289	748	24,596	4,791	5,909	1,990	2,000	9,200	706	0	35
Montgomery County Public Schools												
Individual Schools	704,836	201,987	73,521	427,117	94,162	68,441	72,281	100,131	70,445	21,657	2,211	55,660
Countywide (SC50)	2,936,180	1,168,888	191,557	1,303,470	211,816	225,011	247,248	204,306	199,721	215,368	272,265	356,403
Miscellaneous Projects	0	0	0	0	0	0	-15,000	11,500	3,500	0	0	0
Montgomery County Public Schools	3,641,016	1,370,875	265,078	1,730,587	305,978	293,452	304,529	315,937	273,666	237,025	274,476	412,063
Solid Waste												
Solid Waste Management	28,700	0	0	28,700	0	1,000	10,500	10,500	6,700	0	0	1,000
Solid Waste	28,700	0	0	28,700	0	1,000	10,500	10,500	6,700	0	0	1,000
Montgomery College												
Higher Education	884,485	455,775	43,624	331,670	67,897	69,042	39,422	36,405	50,521	68,383	53,416	38,968
Montgomery College	884,485	455,775	43,624	331,670	67,897	69,042	39,422	36,405	50,521	68,383	53,416	38,968
Housing Opportunities Commission												
Housing	98,298	77,285	11,613	9,400	1,250	2,550	1,850	1,250	1,250	1,250	0	2,550
Housing Opportunities Commission	98,298	77,285	11,613	9,400	1,250	2,550	1,850	1,250	1,250	1,250	0	2,550
WMATA												
Mass Transit (SC96)	0	0	0	0	0	0	0	0	0	0	0	0
WMATA	0	0	0	0	0	0	0	0	0	0	0	0
Total	11,373,769	4,799,299	804,734	4,921,865	948,924	924,202	879,589	801,630	723,480	644,040	847,871	839,677

All Agency Funding Summary (\$000s)

Run Date: 02/03/2017 10:47 AM

Funding Source	Total	Thru FY16	Rem FY16	6 Year Total	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
Aging Schools Program	6,964	6,361	603	0	0	0	0	0	0	0	0
Agricultural Transfer Tax	1,851	231	14	1,406	736	134	134	134	134	134	0
Bond Premium	956	956	0	0	0	0	0	0	0	0	0
Cable TV	70,840	43,459	567	26,814	4,817	4,622	4,520	4,430	4,249	4,176	0
Certificates of Participation	33,435	32,854	581	0	0	0	0	0	0	0	0
Community Development Block Grant	6,576	5,075	1,501	0	0	0	0	0	0	0	0
Contributions	50,769	20,191	10,626	19,952	7,042	4,900	5,432	1,010	760	808	0
Contributions - Other (WSSC only)	0	0	0	0	0	0	0	0	0	0	0
Current Revenue: General	772,829	402,831	37,739	331,709	69,475	58,995	53,064	49,695	50,334	50,146	550
Current Revenue: P & P (ISF)	0	0	0	0	0	0	0	0	0	0	0
Current Revenue: Park and Planning	3,235	322	813	2,100	350	350	350	350	350	350	0
Current Revenue: Parking - Bethesda	20,832	2,151	1,604	17,077	2,715	3,092	3,155	2,990	2,435	2,690	0
Current Revenue: Parking - Montgomery Hill	100	100	0	0	0	0	0	0	0	0	0
Current Revenue: Parking - Silver Spring	28,690	4,384	3,983	20,323	3,389	5,370	3,464	2,700	2,700	2,700	0
Current Revenue: Parking - Wheaton	1,432	85	405	942	157	157	157	157	157	157	0
Current Revenue: Recordation Tax	695,321	257,174	43,485	394,662	58,341	61,630	64,278	66,285	69,912	74,216	0
Current Revenue: WMATA Surcharge	0	0	0	0	0	0	0	0	0	0	0
Department of Liquor Control Fund	157	92	65	0	0	0	0	0	0	0	0
Development Approval Payment	4,794	4,178	616	0	0	0	0	0	0	0	0
Development District	1,600	702	898	0	0	0	0	0	0	0	0
Economic Development Fund	11,000	0	0	11,000	0	0	0	0	5,500	5,500	0
EDAET	7,619	7,619	0	0	0	0	0	0	0	0	0
Enhancement	2,878	2,858	20	0	0	0	0	0	0	0	0
Enterprise Park and Planning	17,787	1,273	564	15,950	1,300	1,050	800	6,000	6,000	800	0
Fed Stimulus (State Allocation)	6,550	6,813	-263	0	0	0	0	0	0	0	0
Federal Aid	315,996	152,869	12,064	151,063	39,360	39,824	31,724	29,215	9,340	1,600	0
Federal Stimulus	1,624	1,624	0	0	0	0	0	0	0	0	0
Fire Consolidated	32,023	4,166	2,867	24,990	3,721	3,027	2,894	5,116	5,116	5,116	0
G.O. Bonds	5,379,627	2,391,637	235,430	2,040,393	407,892	413,501	340,629	318,010	308,622	251,739	712,167
HIF Revolving Program	121,252	98,020	1,980	21,252	13,409	7,843	0	0	0	0	0
HOC Bonds	50,000	50,000	0	0	0	0	0	0	0	0	0
Impact Tax	149,041	57,843	14,899	70,055	4,058	12,244	12,470	13,221	13,789	14,273	6,244
Intergovernmental	15,782	2,387	1,977	11,313	1,910	250	800	2,625	2,500	3,228	105
Interim Finance	40,275	0	50,171	-2,789	5,608	0	3,303	-11,700	0	0	-7,107
Investment Income	1,341	539	0	802	0	70	200	200	210	122	0
Land Sale	58,838	16,838	0	42,000	27,000	0	0	15,000	0	0	0
Land Sale (P&P Only)	513	379	134	0	0	0	0	0	0	0	0
Land Sale ? Bethesda PLD	29,160	29,160	0	0	0	0	0	0	0	0	0
Loan Repayment Proceeds	36,733	11,326	13,420	11,987	2,830	9,157	0	0	0	0	0
Long-Term Financing	209,652	9,288	34,562	165,802	20,074	25,930	59,736	35,435	12,358	12,269	0
M-NCPPC Contributions	4,423	3,471	52	900	150	150	150	150	150	150	0

All Agency Funding Summary (\$000s)

Run Date: 02/03/2017 10:47 AM

Funding Source	Total	Thru FY16	Rem FY16	6 Year Total	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
Major Facilities Capital Projects Fund (MC only)	9,500	472	3,648	5,380	80	2,300	2,200	800	0	0	0
Mass Transit Fund	136,972	17,052	11,239	108,281	9,213	18,499	38,404	16,305	16,425	9,435	400
Montgomery Housing Initiative Fund	4,775	2,500	2,275	0	0	0	0	0	0	0	0
Motor Pool	550	0	550	0	0	0	0	0	0	0	0
Municipal (WSSC only)	0	0	0	0	0	0	0	0	0	0	0
No Funding Sources	0	0	0	0	0	0	0	0	0	0	0
P&P ALA Bonds	0	0	0	0	0	0	0	0	0	0	0
PAYGO	166,393	166,393	0	0	0	0	0	0	0	0	0
POS-Stateside (P&P only)	200	200	0	0	0	0	0	0	0	0	0
Park and Planning Bonds	82,334	25,028	8,269	41,264	7,218	7,244	7,238	6,707	7,217	5,640	7,773
Program Open Space	51,815	20,915	6,177	21,363	3,778	3,562	4,000	3,000	4,000	3,023	3,360
Qualified Zone Academy Funds	10,652	9,173	901	578	578	0	0	0	0	0	0
Recreation Fund	645	578	67	0	0	0	0	0	0	0	0
Recordation Tax - PAYGO	7,000	7,000	0	0	0	0	0	0	0	0	0
Recordation Tax Premium	134,746	31,295	10,061	93,390	14,858	15,014	15,297	15,643	16,062	16,516	0
Rental Income - General	59	59	0	0	0	0	0	0	0	0	0
Rental Income - Roads	5	5	0	0	0	0	0	0	0	0	0
Revenue Authority	26,168	20,892	1,005	4,271	1,136	1,019	280	100	1,030	706	0
Revenue Bonds	23,424	23,424	0	0	0	0	0	0	0	0	0
Revenue Bonds: Liquor Fund	122,640	103,377	13,491	5,772	5,772	0	0	0	0	0	0
Revolving (P&P only)	23,798	0	17,798	6,000	1,000	1,000	1,000	1,000	1,000	1,000	0
Revolving Fund - Current Revenue	5,884	4,257	1,627	0	0	0	0	0	0	0	0
Revolving Fund - G.O. Bonds	57,580	11,235	22,345	24,000	4,000	4,000	4,000	4,000	4,000	4,000	0
School Facilities Payment	4,769	2,314	601	1,854	1,743	0	111	0	0	0	0
School Financing Bonds	0	0	0	0	0	0	0	0	0	0	0
Schools Impact Tax	516,903	188,884	90,284	237,735	25,735	42,827	42,290	40,665	42,873	43,345	0
Short-Term Financing	227,971	136,097	33,742	58,132	22,695	19,300	6,200	3,500	3,146	3,291	0
Short-Term Lease Financing	10,374	0	0	10,374	10,374	0	0	0	0	0	0
Short-term Financing: College	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Collection	421	0	421	0	0	0	0	0	0	0	0
Solid Waste Disposal Fund	29,438	20	718	28,700	0	1,000	10,500	10,500	6,700	0	0
State Aid	921,710	330,133	64,270	475,589	104,648	84,017	70,966	64,553	71,507	79,908	51,708
State Bonds (P&P only)	1,025	675	350	0	0	0	0	0	0	0	0
State ICC Funding (M-NCPPC Only)	3,913	1,500	2,413	0	0	0	0	0	0	0	0
Stormwater Management Waiver Fees	6,794	4,256	738	1,800	600	400	200	200	200	200	0
System Development Charge	0	0	0	0	0	0	0	0	0	0	0
TEA-21	2,368	2,368	0	0	0	0	0	0	0	0	0
Transportation Enhancement Program	1,589	1,589	0	0	0	0	0	0	0	0	0
Transportation Facilities Capital Projects Fund (MC only)	1,500	0	0	1,500	0	500	500	500	0	0	0
Transportation Improvement Credit	1,125	1,125	0	0	0	0	0	0	0	0	0
Urban District - Bethesda	435	243	192	0	0	0	0	0	0	0	0

All Agency Funding Summary (\$000s)

Funding Source	Total	Thru FY16	Rem FY16	6 Year Total	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
Urban District - Silver Spring	0	0	0	0	0	0	0	0	0	0	0
Water Quality Protection Bonds	372,936	53,642	7,681	311,613	43,857	47,622	62,173	64,515	50,547	42,899	0
Water Quality Protection Charge	43,586	14,907	10,048	18,631	8,836	5,413	1,287	1,063	1,089	943	0
White Flint - Special Tax District	169,477	6,964	3,917	85,925	8,469	18,189	25,683	27,556	3,068	2,960	72,671
Total	11,373,769	4,817,828	786,205	4,921,865	948,924	924,202	879,589	801,630	723,480	644,040	847,871

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