

# 2019 – 2023 CAPITAL IMPROVEMENT PLAN

## INTRODUCTION

Providing cost-effective, safe, clean, and reliable public transportation services depends on the maintenance and upkeep of the Authority's capital assets. The capital-intensive nature of the Authority's operations make long term financial planning indispensable. In turn though, the ability to fund these capital needs must continually be weighed against the financial resources required to support the regular operations of the Authority.

The proposed 2019–2023 Capital Improvement Plan (CIP) continues the Authority's ongoing process to align available financial resources with programmed capital projects directed towards achieving a State of Good Repair (SGR) throughout its vehicle fleets, capital assets, and infrastructure. Effective planning helps facilitate this process by providing a framework to schedule capital improvements based on the condition or SGR of capital assets, the availability of financial resources, and the evaluation of requested capital projects. The current process prioritizes capital infrastructure requests and needs and aligns its ongoing capital program with available Federal, State, Local and non-traditional funding resources.

The financial demands to meet a SGR throughout the Authority's capital assets remain at a high level, but the decision to balance scheduled activities with funding limits the number of budgeted projects in any given year end, in essence, has moved the CIP from a five to an eight-year plan. The 2019-23 CIP presented here includes the first five programmed years of the Authority's Capital Program, with-out year projects, covering 2024–2026, under preliminary development.

## ORGANIZATION OF THE CAPITAL IMPROVEMENT PLAN

This chapter contains the 2019-2023 Capital Improvement Plan of the Authority. The first year reflects the Board approved RTA Capital and RTA Development Fund budget appropriations for the FY 2019 capital projects. The following four years of the CIP highlight planned, but not yet approved, out-year capital projects of the Authority. Capital projects and their associated budgets included in these out-years are subject to change based on financial circumstances, revised project time lines or in capital priorities.

A summary of the Authority's capital assets will help put these projects into perspective. The size, age, and service requirements of the bus and rail fleets are used in support of capital projects including the ongoing Bus Improvement Programs and maintenance needs of the Rail Fleets. Similarly, the age, purpose and maintenance history of the RTA's facilities provide a basis for reconstruction and rehabilitation decisions as the CIP is developed. Development of a Transit Asset Management (TAM) database that will assist in refining this process by providing a basis to prioritize the needs of capital assets based on their condition remains underway.

This chapter describes the planning process for the capital program, including the method for establishing budget appropriation authority. It explains the chain of events involved and its relationship to the development of the Transportation Improvement Program (TIP). During this process, the Capital Improvement Financial Policies and Criteria help focus the plan on the priority areas that guide decision making during the Capital Improvement process.

The Financial Capacity section explains Federal, State and Local funding sources and debt management as it relates to the Authority. It will also discuss the impact of capital investment decisions on the Operating Budget.

The final section is devoted to the details of the 2019 Capital Improvement Budget and the four out-years of the overall 2019-2023 CIP. Smaller locally funded projects included in the RTA Capital Fund are listed in Department order, while the larger, grant and/or locally funded capital projects included in the RTA Development Fund projects are organized by capital project categories and reflect specific funding sources, supporting those projects.

## CAPITAL ASSETS

The principal share of expenditures planned within the 2018–22 CIP focuses on attaining a State of Good Repair (SGR) for the Authority’s capital assets. Highlights include completion of the ADA Key Station program, an on-going track rehabilitation plan, reimbursement of preventive maintenance and other expenses generated within the Operating Budget, and the maintenance and upgrade of capital assets throughout the Authority. It continues to emphasize the backlog of needed capital improvements throughout the Authority’s infrastructure and facilities. The age of the Authority’s primary facilities, including their history in terms of original in-service dates, rehabilitations, and additions are shown below in Figure 73. These facilities and others are briefly discussed on the following pages.

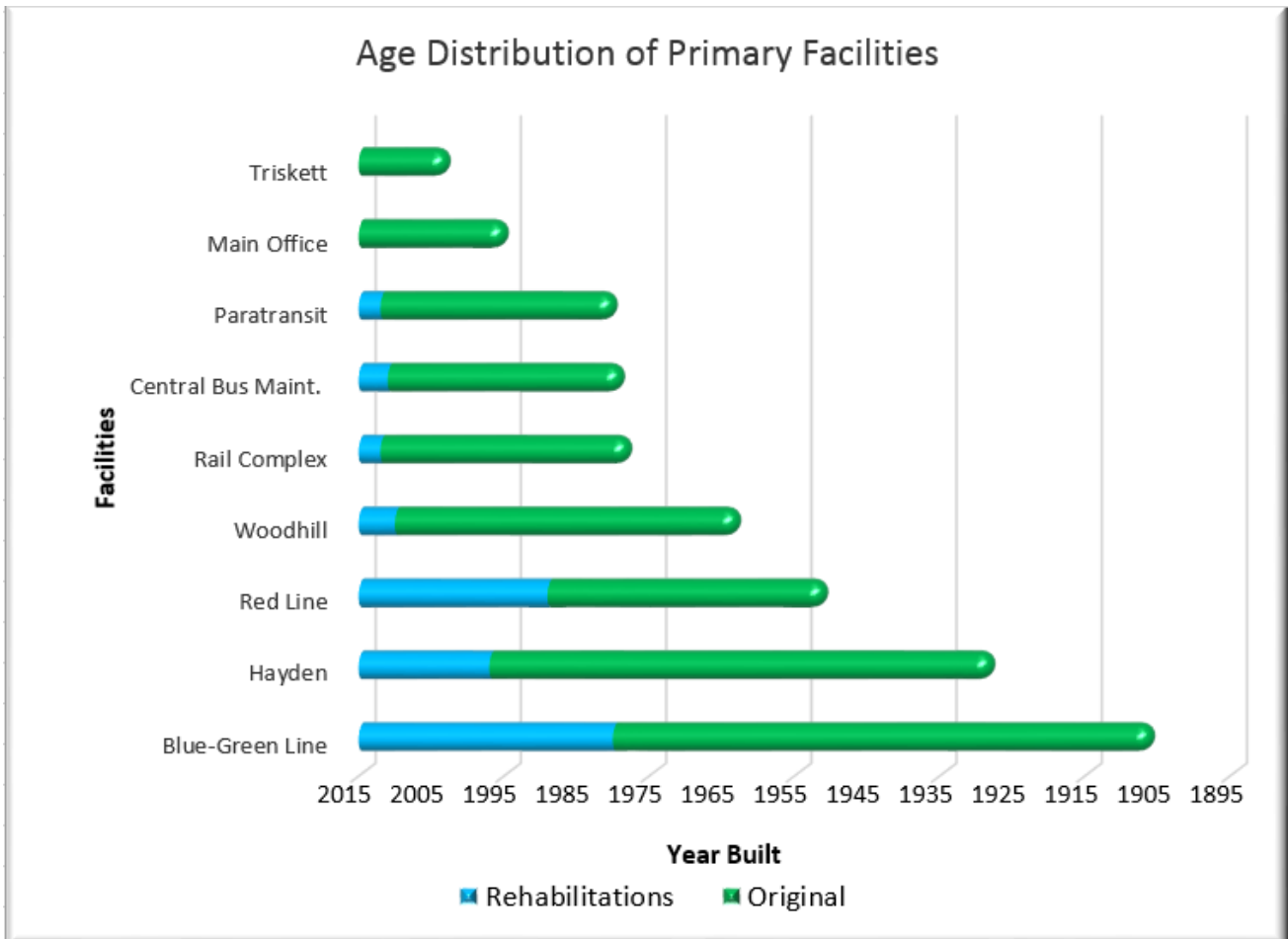


Figure 73: Age Distribution of GCRTA Primary Facilities

## FACILITIES

### BROOKLYN GARAGE FACILITY

The Brooklyn Garage was originally built in 1895 with additions in both 1955 and 1969. It remained in service as a bus facility until 2003. The Authority completed the sale of this facility to a third party buyer in March of 2018.

---

## BUS DISTRICT GARAGE FACILITIES

The Authority has two active large bus district garages:

**TRISKETT GARAGE** is located at 13405 Lakewood Heights Boulevard. It was originally put into service in 1958 with a new replacement garage opening in 2005 at this location. West side service and trolley operations are operated from this garage. Installation of a CNG Fueling station is planned for FY 2019 to fuel future CNG fleets to operate out of the Triskett Garage.

**HAYDEN GARAGE** at 1661 Hayden Avenue was constructed in 1932, with two major additions in 1952 and 1968. It was rehabilitated in 1998 and a SOGR project that included the replacement of six hydraulic lifts, fire suppression and HVAC systems, and 16 overhead doors was completed in FY 2014. Installation of a CNG fueling station was completed in FY 2015 and work was complete to address remaining CNG related building improvements in FY 2018. In FY 2019, 3 CNG Dispensers will be replaced with new units to resolve safety issues with the original units. East side service and the Health Line buses are operated from this garage.

---

## CENTRAL BUS MAINTENANCE FACILITY

The Central Bus Maintenance Facility (CBM), at 2500 Woodhill Road, was put into service in 1983 and houses a remanufacturing division, diagnostic center, bus service & maintenance area, and central inventory stores. Various facilities improvements and lift replacements, funded from a Federal SGR grant award, were completed in 2014. CNG building improvements at this facility were completed in FY 2018. In FY 2019, Paint Booth Exhaust Fans will be installed to meet CNG compliance issues that were discovered from the 2018 CNG improvements.

---

## CUSTOMER SERVICE CENTERS

The GCRTA has two Customer Service Centers located at the Tower City Rapid Station Rotunda in downtown Cleveland and on the first floor of the GCRTA Main Office Building. FY 2019 will see completion of construction on Lost & Found and the start of construction on the new Customer Service Center.

---

## HARVARD GARAGE FACILITY

The Harvard Garage opened for service as a bus garage in 1995 and has not been used as an operating district since 2010. In FY 2014, the Authority entered a License Agreement with Cuyahoga County renting a portion of the facility to help defray cost. The Authority completed the sale of this facility to a third party buyer in March of 2018.

---

## MAIN OFFICE BUILDING

The Main Office Building, a renovated warehouse in the downtown Cleveland Warehouse District, located at 1240 West Sixth Street, opened in September of 1997. This facility houses the administrative functions of the Authority and the Authority's Central Communication Center.

---

## PARATRANSIT FACILITY

The Paratransit Facility, at 4601 Euclid Avenue, was completed in 1983 and houses all Paratransit functions including scheduling, dispatching and both revenue and non-revenue vehicle repairs. In FY 2014, a propane fueling station was installed at the Paratransit Garage and in FY 2015 related propane building enhancements and a 24-month rehabilitation project, including various facilities and equipment upgrades were completed.

---

## PARK-N-RIDE LOTS

One objective of the GCRTA is to provide rail and/or bus Park-N-Ride services for major commuter corridors within Cuyahoga County. As such, the GCRTA provides over 4,400 parking spaces at 23 of its rapid stations. RTA also operate three large bus

Park-N-Ride lots in Strongsville, North Olmsted, and Westlake. These three lots provide a combined 2,527 parking spaces for customers.

---

## PASSENGER SHELTERS

There are approximately 1,459 bus shelters located throughout the Authority's bus system and close to 6,100 bus stops that are cleaned, maintained or replaced on a regular basis throughout the year.

---

## RAIL DISTRICT COMPLEX

The Rail District Complex, located at 6200 Grand Avenue, went into service in late 1982. It houses Rail Headquarters, the Central Rail Maintenance Facility (CRMF), which handles all mechanical, body, and electrical repairs for the rail fleet, the Central Rail Service Building, the RTA Rail Yards, and is the location of the Authority's Transit Police Headquarters. In FY 2014, a total roof replacement project for these facilities was completed, in FY 2015, a multi-year Central Rail Lift Rehab program was implemented to replace and upgrade rail car lifts at this facility to ensure safety and to meet operational needs. In FY 2016, the Exterior Carwash and Track Crossing was repaired and replaced to ensure continual operation of the car wash bay and transfer table, minimizing service interruptions. During FY 2019 the Authority has programmed to rehab CRMF Track 3.

---

## TRANSIT CENTERS

Transit Centers provide heated customer waiting areas and roadways to allow several bus routes to meet and transfer passengers. RTA has four Transit Centers located in Fairview Park at Westgate Shopping Center, Maple Heights at Southgate Shopping Center, Parma at the Parmatown Mall, and near Cleveland State University (Stephanie Tubbs Jones Transit Center).

---

## WOODHILL GARAGE FACILITY

The Woodhill Garage opened in 1966 as a bus garage and remained in service until 1998. It is currently being used as a training facility and houses the Authority's Print Shop operations. In 2015, this facility underwent rehabilitation to remodel a portion of the facility to expand work areas for the electronic repair shop, operators training classroom, and print shop equipment enhancements. FY 2019 will see replacement of two rooftop HVAC units.

## RAIL SYSTEM

---

### RIGHT-OF-WAY

RTA owns 65 miles of rail lines (32.5 miles of joint rail) used for the operation of its rapid transit system including twenty-seven miles of light rail and thirty-eight miles of heavy rail track. To address potential issues related to MAP-21 and the new FAST Act requirements, the Authority is involved in a multi-year program that will establish SGR needs throughout its rail system that will help to prioritize on-going rehabilitation programs. The right-of-way of the Rail System includes 63 track bridges, 53 passenger stations, 17 propulsion power substations, overhead electrical catenary wires, signals, switches, and associated rail infrastructure all of which are included in a regular maintenance program to maintain a state of good repair.

---

### BLUE, GREEN & WATERFRONT LINES (LIGHT RAIL)

The Blue, Green and Waterfront Lines comprise the RTA's Light Rail (LR) System. From the downtown Tower City Station, the Blue and Green lines run on shared track east to Shaker Square, where they separate. From there, the Blue Line follows Van Aken Boulevard to its termination at Warrensville-Center Road, while the Green Line travels along Shaker Boulevard and terminates at Green Road. The Waterfront Line runs from Tower City through the Flats East Bank development area, near First Energy Football Stadium and the Rock and Roll Hall of Fame, and terminates at the Muni Parking Lot.

Most of the 13.5-mile LR lines, with the exception of the 2.2-mile Waterfront Line extension added in 1996, were originally constructed between 1913 and 1920. The Authority's Light Rail System has 35 stations; including three it shares with the Red Line at Tower City, the East 34<sup>th</sup>/Campus and East 55<sup>th</sup> Street Stations. The entire Light Rail System, including tracks, infrastructure, and stations were reconstructed between 1980 and 1984.

In FY 2013, a reconstructed Woodhill Station was opened. In FY 2015 a completed reconstruction of Lee/Van Aken Station, and phase two of the Light Rail Crossings rehabilitation of three crossings, one on the Green Line at Southpark Blvd and two on the Waterfront line at Robert Lockwood Dr. and St. Clair Avenue and lastly the completion of the multi-year Shaker Square Crossings and Junctions rehabilitation project. In FY 2016-2018, nine Light Rail Crossings were rehabbed and completed in 3 phases on the Green Line. This included reconstruction of two Green Line Stations at Warrensville/Shaker Blvd. and Lee Road/Shaker Blvd. and the reconstruction of East 116<sup>th</sup> St. Light Rail Trunk Line Station.

---

## RED LINE (HEAVY RAIL)

The RTA's Heavy Rail (HR), or Red Line, runs on joint tracks for 19 miles from its eastern terminal at the Louis Stokes Station at Windermere, located in East Cleveland, through the Tower City Station in downtown Cleveland to its western terminal at Cleveland Hopkins International Airport. There are 18 stations along the line, eight east of downtown, one at Tower City in downtown Cleveland, and nine west of downtown. Fifteen of the Red Line stations were originally constructed between 1954 & 1958. The remaining three stations, including the Line's western terminal at the Cleveland Hopkins Airport, were put into service in 1967.

Since 2000 the Authority has completely renovated or reconstructed ten of its Red Line Station, with two, Cedar – University and Little Italy – University Circle Rapid Station recently completed. In FY 2015 other infrastructure projects that were finished including the rehabilitation of Red Line track from the S-Curve to W. 117<sup>th</sup> St. Station and from Kinsman Ave. to the Cedar-University Station. FY 2016 saw completion of track reconstruction on Track 7 & 8 at Tower City Station and work commenced on a \$15.1 million reconstruction of Brookpark Station. FY 2019 has a budget amount of \$10.31 million for Red Line Track reconstruction from WestPark Station to Puritas Station.

The 2019-23 CIP of the Authority continues to commit a significant amount of resources towards achieving a SGR in its Light & Heavy Rail Systems infrastructure including the reconstruction, rehabilitation and upgrades to train stations, power substations and electrical systems, train controls, and its on-going track and station rehabilitation programs.

---

## BRIDGES/TUNNELS

The GCRTA is responsible for the maintenance and inspection of 63 track bridges owned within its right-of-way. This includes four station bridges, eight highway bridges, nine service/access bridges, one transit tunnel, five fly-over bridges on the Red Line, and the ¾ mile long viaduct bridge over the Cuyahoga River. The GCRTA also has joint responsibility for inspecting and maintaining the substructures of 100 city and county highway bridges that span the rail tracks. A majority of these bridges were built before 1930 and now require major repairs.

Since 2000, 20 track bridges, seven street bridges, including the shared Light Rail Trunk Line Bridge, and the Airport Tunnel have all been completely rehabilitated and the closed Rockefeller Bridge demolished. In FY 2015, the rehabilitation of CRMF Road Bridge at East 37<sup>th</sup> and East 81<sup>st</sup> & 83<sup>rd</sup> Street were completed. After completion of engineering & design services programmed in prior years for track bridges, construction work begin on three track bridges in FY 2016 including a combined \$10.5 million for the reconstruction of track bridges at East Blvd., East 92nd Street, and completion of Phase I rehabilitation work on the Viaduct Track Bridge- Concrete & Repairs. The out-years of this CIP includes engineering & design services and reconstruction work on four track bridges, the first construction phase on the Viaduct Bridge, track bridge rehabilitation of W.117<sup>th</sup> Street, Ambler Avenue, Canal Road and an on-going inspection program to monitor the condition of each track bridge owned by the Authority. The Waterfront Line Bridge will be the focal point of these inspections in FY 2019 to undergo inspection and possible repairs while the Viaduct Track Bridge will undergo inspection services and repairs.

---

## TOWER CITY STATION

The Tower City Station, is the only downtown station for both the Heavy (Red Line) and Light Rail (Blue, Green, and Waterfront Lines) systems and operates as the main connection point for the Authority's rail lines. Originally constructed and opened in 1930 for passenger rail service, modified in 1955 to accommodate the Authority's rail services, it was completely reconstructed in the late eighties as part of an overall re-development of the entire Tower City complex.

In FY 2016, \$8.90 million was programmed for the rehabilitation of Platform 7 (to serve as a temporary station) and the reconstruction of Track 8 (west-bound track) was completed at 2016 fiscal year end. Construction work was also completed at Tower City Station to replace two sets of escalators (long and short) in time to host the Republican National Convention in mid-2016. FY2019 will see the continuation of track work at Tower City Station with tracks 10 & 13 planned to undergo reconstruction.

## REVENUE VEHICLE FLEETS

---

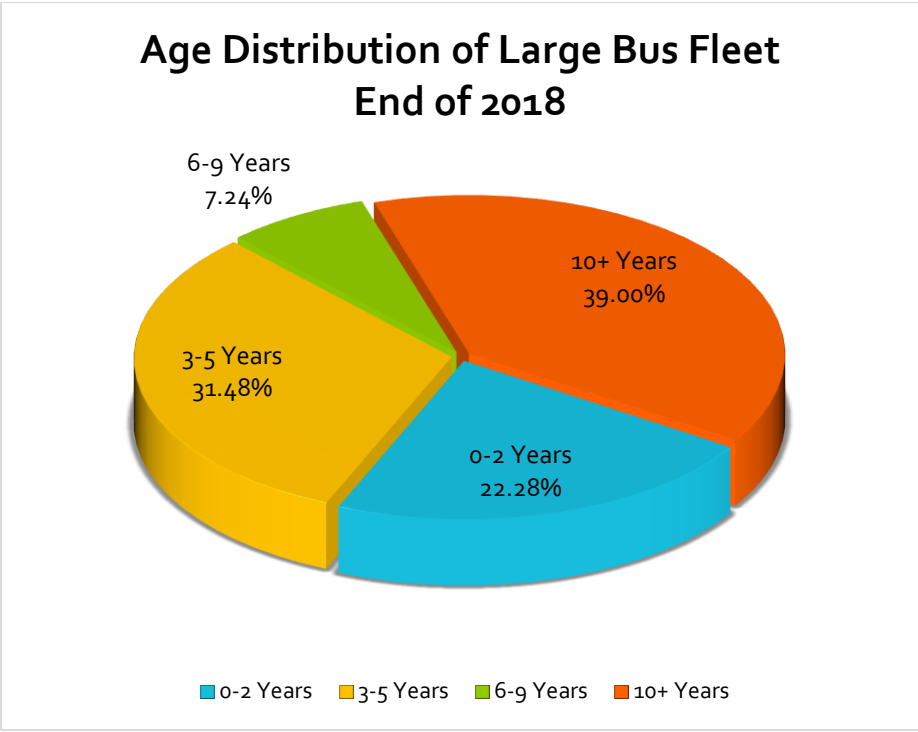
### CONVENTIONAL BUSES

There were 439 vehicles in the GCRTA bus fleet at the end of 2018. Compared to the prior year, 33 vehicles have been retired or are in the process of being replaced under the bus improvement program. During FY 2018, 33 new 40-FT CNG vehicles were placed in daily operation, FY 2017, 45 new 40-FT CNG and in FY 2016, 12 Trolleys were placed into services at mid-year programming an additional 90 40-Ft CNG vehicles and 20 MV1s in late FY 2015. The Authority's total fleet mix includes 439 vehicles, of which 131 40-foot diesel transit buses; 40 60-foot articulated diesel buses; 21 60-foot articulated hybrid bus rapid transit (BRT) vehicles; 22 commuter buses; 3 60-foot articulated BRT buses; 12 35-foot trolley buses; 20 Propane vehicles, 30 25-foot MV1's, 7 27-foot Jitneys, and 3 Dodge Caravans vehicles. The FTA defines the useful life of a bus to be the lesser of 12 years or 500,000 miles and the average age of the large bus fleet was 7.2 years at the end of FY 2018. The age distribution of the Authority's large bus fleet is shown in Figure 74 on the next page.

The Authority's goal is to replace approximately 1/14 of its large bus fleet every year (30 to 35 buses) and to accommodate any increases in peak vehicle requirements. This hasn't been possible until recent budget years due to the lingering impact of the recession and other higher priority capital needs of the Authority, but the 2019–23 CIP continues a planned bus replacement program, begun in 2013, that will continue until the entire fleet is replaced.

A regular bus replacement program will:

- Reduce operating maintenance costs;
- Improve the reliability of the fleet;
- Distribute maintenance efforts more evenly;
- Reduce the Authority's vulnerability to large groups of bus defects; and
- Prevent one-time large purchases.



**Figure 74: Age Distribution of Bus Fleet**

Programmed orders in future years of this CIP depends upon the availability of non-formula funding and competitive grants, but they are expected to further lower the average age of the Authority’s big bus fleet to approximately 6.2 years at the end of 2024. All current and future ordered GCRTA buses are compliant with the Americans with Disabilities Act (ADA) and, with the exception of the trolley buses and BRT vehicles, are equipped with bicycle racks.

---

**PARATRANSIT BUSES**

The Authority’s Paratransit Program transports senior citizens and disabled persons on an advanced reservation basis. Including twenty propane fueled vehicles there are 80 ADA compliant, wheelchair-equipped buses in active service in the Paratransit fleet with an average age of 2.9 years at the end of FY 2018. In mid FY 2016, 20 MV-1 vehicles were placed into service and in FY 2018, another 36 were added. Future replacement plans have a total of 23 vehicles being replaced in 2020 that will bring the average life of the Paratransit fleet to 2.8 years old by the end of 2020. In 1991, the Board adopted a policy to provide for the integration of fixed rail and bus services with Paratransit services into a network of services comparable to what is available to the general public. This continuing policy is designed to maintain full system accessibility and provide compliance with ADA and U.S. Department of Transportation Regulations.

---

**RAIL VEHICLES**

RTA owns a combined 92 heavy and light rail vehicles for its rail operations. The age of the Authority’s rail fleet ranges between 33 and 37 years old. In recent years a midlife overhaul of the Authority’s Light Rail (LR) and Heavy Rail (HR) fleets was completed, and in prior year 2015 an interior overhauls was implemented and completed. Both mid-life projects were initiated to economically extend the useful life of the Authority’s rail vehicle fleets approximately 12 years beyond their normal expected operating life of 25 to 30 years, but in the near future, the Authority will be facing significant replacement costs for both of its rail fleets.

There are 40 active Tokyo HR vehicles, purchased in 1984 and 1985, which operate on the Red Line. The peak service requirements for the Red Line during rush hours are 24 cars, while special events require 36 cars. The 34 active Breda LR vehicles, acquired between 1981 and 1983, run on the Blue, Green, and Waterfront Lines of the Authority. Vehicle requirements for LR peak rush hour service are 9 cars, and 28 cars are required for special event services. During the pillar studies, a value of \$24.0 million was determined as the cost needed to replace both rail car fleets. HRV cars were stated to have around 5 years of useful life left while LRV cars were determined to have around 10 years of useful life left before replacement is needed.

## CAPITAL IMPROVEMENT PLANNING CYCLE

The Capital Improvement Planning Cycle is longer than the operating budget process due to the preparation, scope, and cost involved with the projects. Grant-funded projects must be identified well in advance of planned execution so that applications can be filed and approved. Furthermore, construction projects must be preceded by preliminary engineering and design work to determine the scope and specifications of the project.

The Calendar of Events, Figure 75 on the next page, depicts the revised Capital Improvement and TIP planning cycles for the 2019-23 Capital Improvement Plan (CIP). The process began in January, 2018 when the Office of Management and Budget (OMB) reviewed the budgeting policies and set the parameters for the Capital Budget, and concluded in May 2018 with the Board Adoption of the recommended 2019-23 CIP followed by submission to NOACA for inclusion in the TIP/STIP.

At the start of the CIP development process, an initial review is done by OMB and various departments to assess the status of projects included in the current year’s Capital Improvement Budget. This review includes any variances with programmed project timelines, availability of grant funds, and an inter-departmental review of data and resources required for the upcoming CIP. The Authority’s Divisions and Departments are then provided a detailed set of instructions and follow-up meetings with staff are held. Meetings include a review of the information required for capital project requests, clarification of Department and Division requests and an overview of anticipated funding for the upcoming capital budget year.

In February and March, OMB staff and the Capital Program Working Group (CPWG) reviewed all submitted capital project requests for consistency with the needs of the Authority’s infrastructure, funding availability, the Authority’s Long Range Plan, the current Transportation Improvement Plan (TIP), and the annual strategic planning process. Projects were then prioritized in accordance with RTA’s capital priority areas- state of good repair, health & safety, mandates, environmental impact, and ridership transit oriented development and in turn forwarded to the Capital Program Oversight Committee (CPOC) which includes the Executive Management Team of the Authority. The CPOC was formed to develop and monitor the Capital Program and to authorize the five-year Capital Program with projected grant, local and non-traditional revenue sources. After initial meetings with the Department Directors at the division level and with the General Manager and the Executive Management Team at the organizational level, the recommended Capital Budgets for the 2019-23 CIP were finalized.

## BUDGET DEVELOPMENT SCHEDULE

### NOVEMBER 2017

DATES	SCHEDULE
November 14	Operating: Presentation of Operating Budget to Finance Committee
November 21	Operating: Service Management Presentation of 2018 Service Plan; Public Hearing of Operating Budget

### DECEMBER 2017

DATES	SCHEDULE
December 14	2019-2023 CIP: OMB Analyst Planning Meeting, Notice to All Departments of Capital Improvement Process and Request Forms.
December 19	Operating: Board Meeting – Adoption of 2018 Operating Budget
December 21	Operating: Final review of 2018 Cost Allocation Plan.
December 29-31	Operating: Inventory Roll



## JANUARY 2018

DATES	SCHEDULE
January 15-19	Operating: GL closes for 2017; allocate December Fringes; Close system for 2017 Operating Budget Encumbrance Roll
January 18	<b>2019-2023 CIP:</b> All Capital Request are due by end of business.
January 22-26	Finalize 2017 4 <sup>th</sup> Quarter Report

## MARCH 2018

DATES	SCHEDULE
March 1	<b>2019-2023 CIP:</b> CPWG Meeting
March 9	<b>Operating:</b> A/P & GL Closes; Fringes allocated for February
March 15	<b>2019-2023 CIP:</b> CPOC Meeting
March 27	<b>Operating:</b> 2018 Amended Budget Approved by BOT
March 29	<b>2019-2023 CIP:</b> CPOC Meeting
March 31	<b>Operating:</b> 2018 Quarter 1 Ends

## MAY 2018

DATES	SCHEDULE
May 1	<b>Operating/CIP:</b> Update 2018 Budget Book, <b>Presentation of 2019 Capital Budget to Finance Committee, &amp; Public Hearing;</b> ODOT Black Cat Submission for NTD
May 4	<b>Operating:</b> Salaries posted for April
May 11	<b>Operating:</b> A/P & GL Closes: Fringes allocated for April
May 14	<b>Operating:</b> Begin Revenue research for 2018 Tax Budget
May 15	<b>2019-2023 CIP:</b> <b>Resolution and Presentation completed for Board</b>
May 31	<b>Operating/CIP:</b> Review NTD Validation Issues and submit updates and responses
	VFO Updates for April

## JULY 2018

DATES	SCHEDULE
July 6	<b>Operating:</b> Salaries posted for June
July 13	<b>Operating:</b> A/P & GL Closed; Allocate Fringes for June; <b>Contact the County for an extension for the 2019 Tax Budget submission</b>

## FEBRUARY 2018

DATES	SCHEDULE
February 9	<b>Operating:</b> GL closed; Allocate January Fringes
February 12	NTD Kick-Off meeting
February 15	<b>2019-2023 CIP – CPWG Meeting</b>

## APRIL 2018

DATES	SCHEDULE
April 1	<b>Operating:</b> 2018 Amended Budget begins
April 6	<b>Operating/CIP:</b> Position Salaries posted for March. <b>Legal Notice: CIP &amp; Public Hearing</b>
April 13	<b>Operating:</b> A/P & GL closed; Fringes allocated for March
April 25	<b>Operating/CIP:</b> Q1 QMR completed; VFO Updates for March
April 30	<b>Operating/CIP:</b> NTD 1 <sup>st</sup> Submission Due

## JUNE 2018

DATES	SCHEDULE
June 8	<b>Operating:</b> Salaries posted for May; Finalize Budget Book
June 8	<b>Operating/CIP:</b> Complete Draft of 2019 Tax Budget
June 15	<b>Operating:</b> A/P & GL Closes: Fringes allocated for May
June 25	<b>2019-2023 CIP:</b> <b>Submitted to NOACA</b>
June 27	<b>Operating/CIP:</b> Final completion of 2019 Tax Budget Transmittal Letter and Fund Statements: <b>Legal Notice: Tax Budget &amp; Public Hearing</b>
June 29	<b>Operating/CIP:</b> Review NTD Validation Issues and submit final updates and responses
June 30	<b>Operating/CIP:</b> 2018 Quarter 2 Ends; VFO Updates for May

## AUGUST 2018

DATES	SCHEDULE
August 3	<b>Operating:</b> Begin conversations with Departments about Budget; Position Salaries posted for July; Analysts – start creating Operating Base Budgets

July 17	<b>Operating:</b> Presentation of 2018 Tax Budget to Finance Committee; & Public Hearing; <b>Legal Notice: CIP &amp; Public Hearing;</b>
July 20	<b>Operating/CIP:</b> 2018 Q2 Projections Completed
July 24	<b>Operating:</b> Board Approval of 2018 Tax Budget; <b>Send Tax Budget to County</b>
July 25	<b>Operating/CIP:</b> Q2 QMR Completed; VFO Update for June

August 10	<b>Operating:</b> A/P & GL Closed; Allocate Fringes for July;
	VFO Update for July

## SEPTEMBER 2018

DATES	SCHEDULE
September 7	<b>Operating:</b> Finalize Department Base Budgets, including staffing needs; Salaries posted for August
September 10	<b>Operating:</b> Draft of 2018-2019 Service Plan due; A/P & GL Closed – allocate Fringes
September 17 - 20	<b>Operating:</b> 1 <sup>st</sup> Meeting with CEO on 2019 Budget; Begin 2019 Cost Allocation Plan process
September 21	<b>2019 Budget;</b> Finalize CEO Updates
September 24	<b>Operating:</b> Present & Send Base Budget to EMT and Departments; Base Budget Appeals sign-up
September 25-28	<b>Operating: Base Budget Appeals</b>
September 25 - 28	<b>Operating:</b> Send Department Directors and DGMs copies of Base Budgets and appeal schedule
September 30	<b>Operating / CIP:</b> 2018 Q3 Ends; VFO Updates for August

## OCTOBER 2018

DATES	SCHEDULE
October 5	<b>Operating:</b> Update Operating Budget with Appeal decisions; Salaries posted for September
October 12	<b>Operating:</b> FINAL 2019 Service Plan Due; A/P & GL Closed – Allocate Fringes
October 12	<b>Operating:</b> 2 <sup>nd</sup> Meeting with CEO on 2019 Budget
October 15	<b>Operating / CIP:</b> Write Transmittal Letter & <u>Q3 QMR Fund Statements;</u>
October 22	<b>Operating: EMT Presentation of Final 2019 Budget;</b> <b>Legal Notice: Operating Budget &amp; Public Hearings;</b> 2018 Q3 Completed
October 22-25	<b>Operating:</b> Complete Transmittal Letter & Presentation for November Finance Committee Meeting
October 31	<b>Operating / CIP:</b> Q3 QMR Completed

## NOVEMBER 2018

DATES	SCHEDULE
November 13	<b>Operating / 2019-2023 CIP:</b> Start writing 2019 Budget Book – Department Budget Sections; Create 2019 Operating Budget Resolution
November 13	<b>Operating:</b> Salaries Posted for October; A/P & GL Closed – Allocate Fringes
November 13	<b>Operating:</b> Presentation of Operating Budget to Finance Committee;
November 20	<b>Operating:</b> Service Management presentation of 2019 Service Plan; TBD - <b>Public Hearing on 2019 Operating Budget</b>
November 27	<b>Operating:</b> Ensure all 2019 Cost Allocation Plan data submitted and verified as requested by vendor
November 27	<b>Operating / 2019-2023 CIP:</b> Start writing other Budget Book Sections

## DECEMBER 2018

DATES	SCHEDULE
December 4	<b>Operating:</b> Presentation – final update to Finance Committee on 2019 Operating Budget and 2019 – 2023 CIP; <b>Public Hearing after Presentation</b>
December 7	<b>Operating:</b> Position salaries posted; Review 1 <sup>st</sup> Draft of 2019 Cost Allocation Plan; Budget Reso review & signing
December 7	<b>Operating:</b> Last Day to submit 2018 Requisitions; Meeting to plan Inventory Roll
December 7-15	<b>Operating:</b> Load 2019 Operating Budget into Oracle; A/P & GL Closed – Allocate Nov Fringes
December 18	<b>Operating:</b> Presentation of 2019 Operating Budget to Finance Committee;
December 21	<b>Operating:</b> Receive Final 2019 Cost Allocation Plan; Review rates compared to last approved plan; If above/below 20% change, send to FTA
December 29 - 31	<b>Operating; Inventory Roll;</b> 2018 Q4 Ends; Send memo about 2 Fiscal Years Open; Deliver 2019 Cost Allocation Plan to designated employees

## JANUARY 2019

DATES	SCHEDULE
January 1 - 12	<b>Operating: Begin 2019 Budgets;</b> Position Salaries Posted for December; <b>2 Budget Years Open</b>
January 12-18	<b>Operating:</b> A/P & GL Closes; allocate December Fringes; Close System for Operating Budget Roll; Finalize 2018 4Q QMR
January 12-18	<b>2018 Operating Budget Encumbrance Roll;</b> Complete 2018 4Q QMR; Oracle re-opened
January 22	Oracle System Open for 2019; Print 2019 Budget Books

## FEBRUARY 2019

DATES	SCHEDULE
February 2	<b>Operating:</b> Position Salaries posted for January; Deliver 2019 Budget Books to designated employees
February 9	<b>Operating:</b> GL Closed; Allocate January Fringes
February 12	<b>Operating / CIP:</b> NTD Kick-off meeting
February 19	<b>CIP:</b> Create Schedule for 2020 - 2024 CIP

**Figure 75: Budget Development Schedule**

A new budget schedule was set to better align with the NOACA Board review to assure funding would be in place. The CIP for 2019-23 was finalized and presented to the Board of Trustees' Finance Committee in August for discussion and review at which time approval was given.

### TRANSPORTATION IMPROVEMENT PROGRAM

The planning cycle for grant-funded projects begins with the development of the Authority's CIP for incorporation into the Transportation Improvement Program (TIP). The TIP documents transportation related capital projects within the region for which Federal funding will be requested. Projects must appear in the TIP to receive funding consideration. The Northeast Ohio Area-wide Coordinating Agency (NOACA) is responsible for bi-annually preparing the four-year plan for this area with the GCRTA responsible for preparing the transit component of the plan for Cuyahoga County.

The GCRTA Long-Range Plan and its related five-year Strategic Plan guides the CIP and TIP. These plans articulate the types of services and markets the Authority expects to serve. The Authority's preparation of projects for inclusion in the TIP began in March when departments request revisions, additions, or deletions to the previous year's CIP. The Budget Calendar of Events reflects the TIP process and how it corresponds to the Capital Improvement planning cycle. Capital project requests are prioritized by the Capital Projects Working Group (CPWG) and, in turn, are submitted to the Capital Program Oversight Committee (CPOC) for review and approval.

The proposed Capital Budgets for the upcoming calendar year are presented to the Board of Trustees committees; further defined depending on funding allocations for the new Federal fiscal year and any revisions to the original Capital Budgets will be submitted for Board approval in May and through NOACA, incorporated into the current four-year TIP prior to the new Federal Fiscal Year. Revisions to existing projects and/or amendments to add new projects are submitted on a quarterly basis for review and inclusion in the revised TIP/STIP.

### CAPITAL BUDGET APPROPRIATIONS

The budget process culminates when the Board approves the budget and establishes appropriation authority for the upcoming Fiscal Year. With respect to the Capital Budget, appropriation authority varies depending on which of the two Capital Improvement Funds, either the RTA Capital or the RTA Development Fund, supports the project.

The RTA Capital Fund includes capital projects funded from the Sales & Use Tax revenue. In general, these capital projects are less than \$150,000, have a useful life of less than 5 years, are routine in nature, and usually directly tie to daily operations. This Fund is subdivided into Routine Capital projects, for the acquisition of non-revenue vehicles and equipment, and Asset Maintenance projects, that include minor rehabilitation projects at Authority facilities.

The RTA Development Fund primarily includes capital projects with a value greater than \$150,000, a useful life greater than five years, and includes all of the large multi-year rehabilitation/reconstruction and expansion projects of the Authority. All

grant-funded projects are accounted for in the RTA Development Fund and projects in this Fund are normally supported through various combinations of Federal and State of Ohio grants, local matches for these grants, debt service and/or 100 percent local funds.

Budget authority for both RTA Capital and RTA Development Fund projects are established when the Board of Trustees approves the annual Capital and other Fund Budgets of the Authority. The Board also approves grant applications and the acceptance of awards, which commits the Authority to providing matching funds when grant funds are drawn. Once approved, the Authority may draw against the grant until the project is completed or the time limit on the grant has expired. Grant awards can only fund projects specified in the application unless the Federal Transit Administration (FTA) or grantor agency approves an amendment.

## CAPITAL IMPROVEMENT FINANCIAL POLICIES

The Board of Trustees has established a set of financial policies including some to ensure that adequate funds are regularly invested in maintaining the Authority's capital assets. These policies, which are highlighted in the Budget Guide, are used as goals for planning and controlling. They are as follows:

- An amount equivalent to at least 10 of Sales & Use Tax revenues shall be allocated to the Capital Improvement Fund on an annual basis.
- Capital Improvement Funds shall be used to account for the construction and acquisition of major capital facilities, vehicles, and equipment.
- The percent of capital maintenance outlay to capital expansion outlay will be a minimum of 15 percent and a maximum of 85 percent.
- The Authority will strive to take advantage of all available Federal and State grants and other financing programs for capital improvements.

## CAPITAL IMPROVEMENT CRITERIA

Capital project requests for consideration in the 2019–23 CIP far exceeded available resources. As a result, established guidelines are used to prioritize project requests for funding. The following criteria provide a basis for preliminary capital investment decisions and include:

---

### THE VALUE AND USEFUL LIFE OF THE CAPITAL ASSET

To be included in the Capital Improvement Plan, the asset must have a value of \$5,000 or more and have a useful life exceeding one year. If financed by debt, the useful life should exceed the term of the bond.

The availability of resources to fund the Capital Improvement, including grant resources

The availability of grant resources against which local funds can be leveraged greatly enhances the likelihood of approval.

---

### THE AGE AND CONDITION OF THE CAPITAL ASSET

Assets that are older and in poor condition generally rank higher on the rehabilitation or replacement list. Specific vehicle rehabilitation or replacement programs have been established for buses, rail cars, and non-revenue vehicles.

---

### THE RELATIVE COST TO THE AUTHORITY FOR THE BENEFIT OBTAINED

Benefits may be measured in terms of avoided cost or the ability of the improvement to recover the capital investment within a given period.

## VALUE ENGINEERING CONSIDERATIONS WITH REGARD TO THE SCHEDULING/ORDER OF PROJECTS

The relationship between projects is an important consideration in the scheduling of construction projects. For example, major rehabilitation to a bridge on a rail line might coincide with a track rehabilitation to achieve economies and avoid a duplication of effort.

### PRIORITY AREAS

In addition to these criteria, all capital projects must relate to one of the following priority areas to be considered for approval. Capital projects, which address multiple priority areas, have a greater likelihood of approval.

During this planning cycle, priority areas of the Authority were defined as:

- **State of Good Repair (25%)** – Maintaining the Authority’s current ‘core business’ through investments in projects which are necessary in order to operate the existing infrastructure or add an additional dimension/mode to existing systems.
- **Health and Safety (20%)** – Ensuring the physical well-being of the Authority’s customers, employees, and the general public.
- **Mandates (20%)** – Ensuring compliance with Federal and State mandates such as the Clean Air Act and Americans with Disabilities Act.
- **Ridership Transit Oriented Development (15%)** – Invest in equipment, opportunities for private investment, increased revenues, encourage partnerships with other organizations. Stimulate the development of current property for the benefit of customer satisfaction to maintain current ridership and attract new customers.
- **Operating Budget Impact (15%)** – Investing in projects that will result in a direct positive impact on reducing operating expenses or improving operational efficiencies of the Authority.
- **Environmental Impact (5%)** – Investing in equipment, adapting facilities or enhancing service infrastructure to support overall environmental benefits such as improved air quality.

Figure 76 reflects the distribution of approved 2019 Capital Improvement projects by capital priority area. The largest portion of the 2019 Capital Budget appropriations, \$61.33 million or 90.10 percent, are for projects included within the State of Good Repair category that maintain or improve existing Authority capital assets. This is followed by the Technologies/Efficiencies category with \$3.55 million, or 5.22 percent, with the remaining categories making up the balance of the budgeted capital projects.

PRIORITY CATEGORIES - Combined	2019	2020	2021	2022	2023	TOTALS 2019-23
RIDERSHIP	\$0.35	\$0.35	\$0.35	\$0.35	\$0.35	\$1.75
HEALTH & SAFETY	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$1.03
STATE OF GOOD REPAIR	\$61.33	\$75.04	\$72.64	\$73.14	\$67.85	\$349.99
TECHNOLOGIES/EFFICIENCIES	\$3.55	\$0.32	\$0.32	\$0.49	\$0.34	\$5.01
OTHER	\$2.64	\$2.64	\$2.64	\$2.64	\$2.64	\$13.19
<b>SUB-TOTAL: ROUTINE CAPITAL</b>	<b>\$68.07</b>	<b>\$78.55</b>	<b>\$76.15</b>	<b>\$76.82</b>	<b>\$71.38</b>	<b>\$370.96</b>

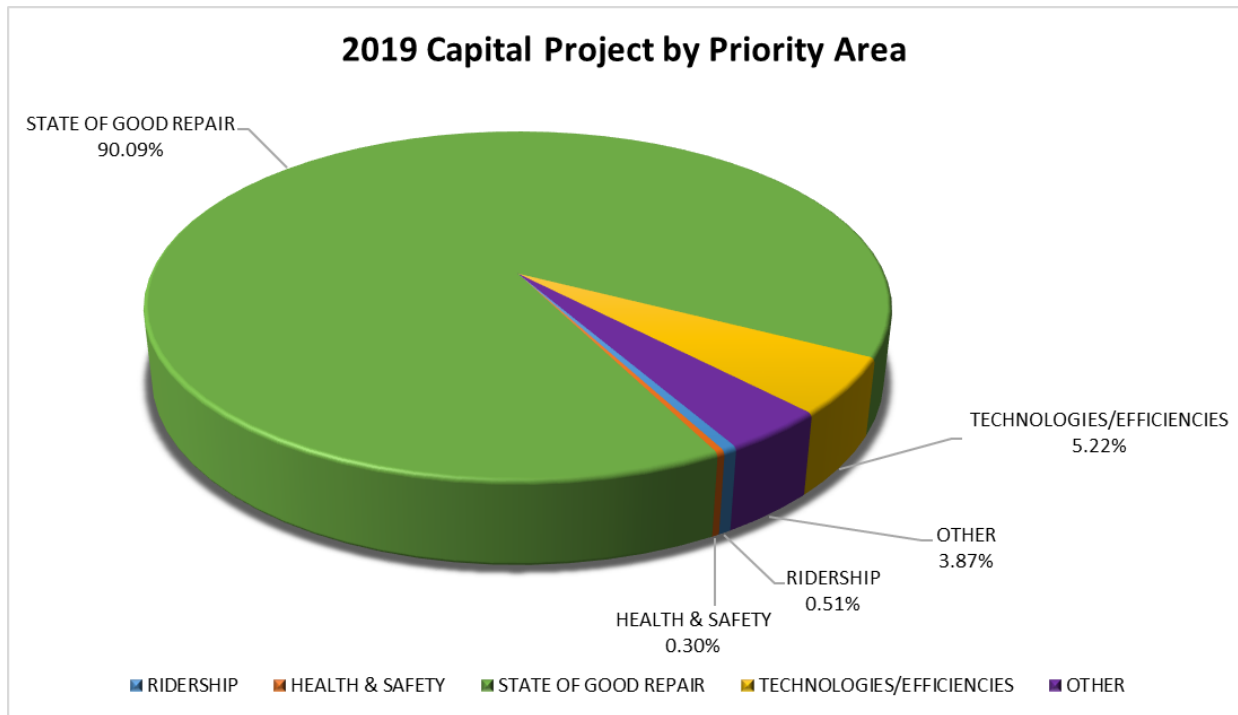


Figure 76: Capital Projects by Priority Area

## FINANCIAL CAPACITY

The nature of public transit requires that the Authority pursue a capital-intensive budget. The Authority's capacity to support its ongoing CIP depends on the availability of governmental grants, local matching funds, and the ability to issue bonds. During the eighties and through the mid-nineties, the RTA favored a pay-as-you-go method, maximizing the benefits of Federal and State grant programs, and utilizing debt financing sparingly. Beginning in the mid-nineties, the use of debt significantly increased to meet the financial needs of an extremely aggressive Capital Improvement Program. This led to a significant increase in the overall debt service of the Authority – one that requires principal and interest payments that totaling \$16.9 million in FY 2018 for existing debt service.

At the end of FY 2018, the Authority will have a combined \$96.4 million of outstanding debt among five outstanding debt issues. They are, along with their original amounts, a \$25.0 million issuance and \$17.4 million refunding issuance in 2012, a \$29.4 million refunding issuance in 2014, and a \$combined \$51.4 million issuance and refunding issuance in 2015/2016. Current plans are to issue \$30 million of additional debt in FY 2019 that will be used as the local match for programmed grant funded capital projects or for locally funded capital projects.

In addition to determining the method of financing a project, capital investment decisions by the Authority also take into account a project's impact on operating costs. If a new facility is built, the operating budget must be capable of supporting any additional costs or be positioned to take advantage of any efficiencies.

## FEDERAL SOURCES

As reflected in Figure 77, Federal grants provide an estimated \$42.08 million, or nearly 48.81 percent of the Authority's capital improvement revenue stream during FY 2019. Over the five-year CIP period, Federal funding may provide approximately 63.96 percent of the needs for the Authority's programmed capital projects. Most major Federal grant programs require a local match, normally 20 percent, though in some isolated grant awards a 10 percent or no local match is required. Through FFY 2013, Federal grant programs were modified by the INTERMODAL SURFACE

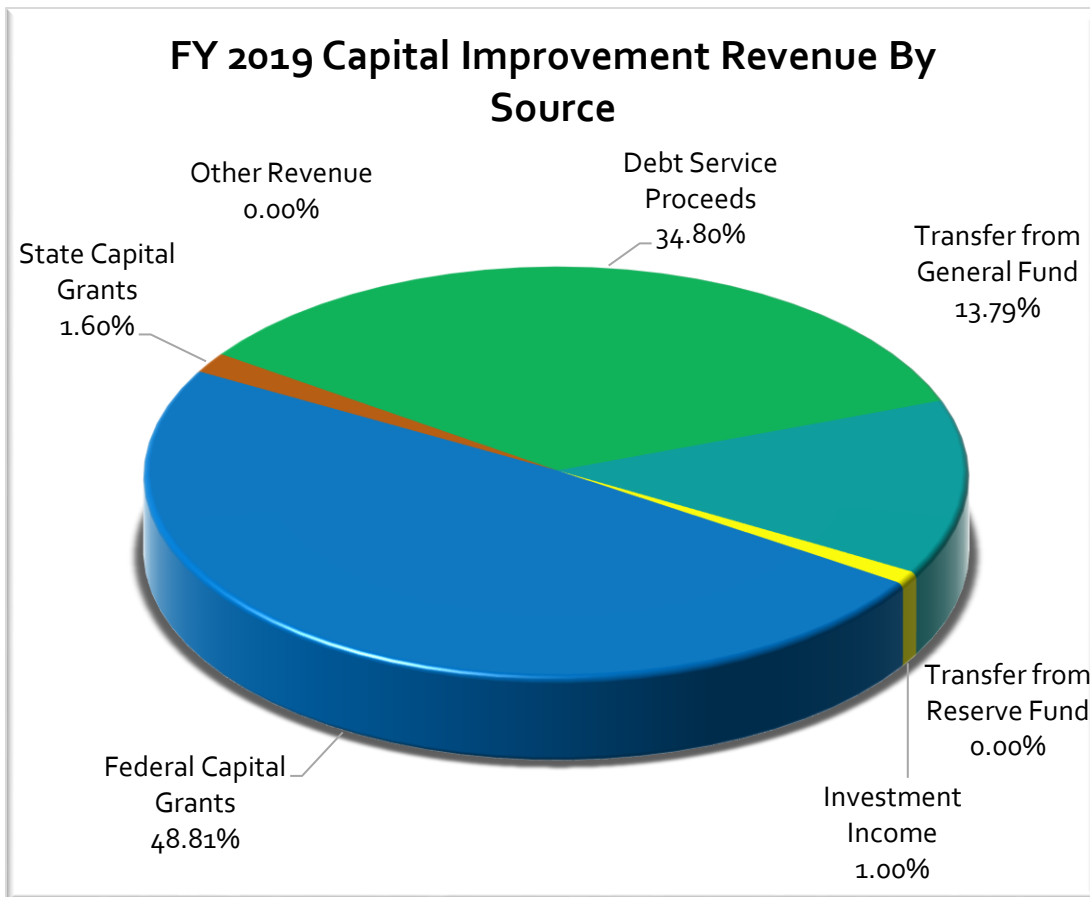
TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA), and confirmed by both the TRANSPORTATION EQUITY ACT FOR THE TWENTY FIRST CENTURY (TEA-21) and the SAFE, ACCOUNTABLE, FLEXIBLE, EFFICIENT TRANSPORTATION EQUITY ACT: A LEGACY FOR USERS (SAFETEA-LU) adopted in 2005.

SAFETEA-LU was extended several times since, and in FY 2012 a new Transportation Act, Moving Ahead for Progress in the 21<sup>st</sup> Century (MAP-21), was approved by Congress. MAP-21 established some certainty over available FTA funds for future transit construction projects. Changes in Federal formula calculations for grant awards, inclusion of new census data in the determination of formula grants, incorporation of operating statistics relative to all transit agencies, and consolidation and/or elimination of some grant programs had an unfavorable impact upon financial resources for the Authority's capital improvement program.

The changes brought on by MAP-21 legislation impacted the Authority's Rail Systems capital programming. Prior to MAP-21 the Rail Modernization grant was allocated through a formula favorable to the Authority and other "older" rail systems in America. Rail formula funds are currently allocated through a STATE OF GOOD REPAIR (SOGR) program, which incorporates both population and operating statistics into the formula allocations resulting in a reduction of formula funds for the rail system. While the MAP-21 legislation clarified available financial resources in the short-term, the long-term Federal funding commitment to public transportation remains uncertain.

At the end of 2015, a new Transportation Act titled "FIXING AMERICA'S SURFACE TRANSPORTATION" (FAST) ACT is expected to be approved by Congress. The FAST Act will incorporate current MAP-21 initiatives and focus on SOGR strategies. The FAST Act is also expected to impact the Authority's formula funding allocation in the CIP by an annually projected increase of \$2 million, most of which is prioritized for Rail SOGR projects.

On July 26, 2016 FTA made its "Final Ruling" reaffirming that transit agencies must establish a Transit Asset Management System Plan to monitor and manage public transportation assets to improve safety and increase reliability and performance. The "Final Ruling" sets the objective to achieve a state of good repair (SGR) by creating a business model using transit asset condition ratings to guide capital planning decisions and optimize funding resources.



	2016	2017	2018	2019	2020	2021	2022	2023
	Actual	Actual	Actual	Amended Budget	Plan	Plan	Plan	Plan
Transfer from General Fund	\$9.47	\$10.27	\$15.26	\$11.89	\$13.65	\$12.92	\$17.05	\$14.00
Transfer from Reserve Fund	\$0.00	\$0.00	\$2.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Investment Income	\$0.29	\$0.33	\$0.32	\$0.86	\$0.57	\$0.77	\$0.57	\$0.77
Federal Capital Grants	\$47.73	\$48.46	\$56.53	\$42.08	\$74.12	\$64.43	\$52.94	\$50.28
State Capital Grants	\$0.11	\$0.00	\$0.83	\$1.38	\$1.38	\$1.38	\$1.38	\$1.38
Debt Service Proceeds	\$0.00	\$0.00	\$0.00	\$30.00	\$25.00	\$0.00	\$0.00	\$25.00
Other Revenue	\$0.00	\$0.33	-\$0.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total Revenue</b>	<b>\$57.60</b>	<b>\$59.38</b>	<b>\$74.91</b>	<b>\$86.21</b>	<b>\$114.71</b>	<b>\$79.50</b>	<b>\$71.94</b>	<b>\$91.43</b>

Figure 77: Capital Improvement Revenue by Source

#### URBANIZED AREA FORMULA - SECTION 5307

Urbanized Area or Capital grants were originally provided under Section 5307 of the Urban Mass Transportation Act of 1964. Resources are allocated to urban areas according to a formula and matched on an 80 percent Federal and 20 percent local basis. This program has continued under the new MAP-21 legislation, though several changes were made leading to a small reduction in the annual award of funds. Additionally, changes due to MAP-21 included the elimination of the Job Access & Reverse Commute (JARC) Section 5316 program, which provided over \$12.21 million in local match for operating costs associated with this program over a six year period. The JARC program was incorporated into the Section 5307 formula award as an eligible reimbursement in the MAP-21 and FAST legislations, but no additional resources are provided to continue the program.



In FFY 2016, with the local match included, the Authority received \$29.62 million and \$29.92 in FY 2017 from its Section 5307 award, a slight increase from the prior FY 2015 amount of \$29.08 million. FY 2018 allocations under the upcoming FAST 21 legislation are estimated at \$28.45 million, near the amount currently received under the MAP-21 legislation and decreasing in FY 2019 to an amount of \$28.36 million.

---

#### STATE OF GOOD REPAIR – SECTION 5337

Since ISTEA, Federal participation for the former Section 5309 award program is distributed at the Federal Transit Administration's (FTA) discretion on an 80 percent Federal, 20 percent local basis. The ISTEA also instituted a multi-tier formula to allocate Section 5309 Rail Modernization grants, one that historically favored the older established rail systems including the GCRTA. This formula allocation remained the same in the now expired SAFETEA-LU legislation.

The MAP-21 legislation replaced the Section 5309 Rail Modernization award program with the Section 5337 State of Good Repair (SGR) grant program. It also replaced the historical Section 5309 funding formula allocation with a program that relied upon operational statistics of a transit agency compared to the industry statistics, as well as use of the 2010 UZA Census data. The new formula favors agencies serving growing populations and expanding transit services over those with a relatively static UZA population and service, resulting in the loss of more than \$700,000 for rail formula award funds from FY 2018 to FY 2019 for the Authority.

The last Federal allocation for the Section 5309 – Rail Modernization Award was an indication of the financial impact the Authority faced under the MAP-21 legislation. Including the 20 percent local share, the last Rail Modernization award in FFY 2012 totaled \$17.26 million. Since then, the Authority has received \$14.16 million in FFY 2013, \$15.38 million in FFY 2014, and \$15.10 million in FFY 2015. Under the new FAST Act, the Authority received \$17.38 million in FY 2016, \$18.92 in FY 2017 and \$17.76 in FY 2018, needed for state of good repair for capital projects. While a significant increase, the Authority level of funding remains below the actual need to maintain a state of good repair.

---

#### BUS & BUS FACILITIES – SECTION 5339

Section 5339 grant funding is a smaller formula award that provides additional capital funding for the replacement, rehabilitation, purchase of buses and related equipment, and the construction of bus-related facilities. Funding for this award under the MAP-21 Act remains relatively stable with \$2.43 million received in FFY 2014 and FFY 2015, a slight decrease to \$2.31 million in FFY 2016, and \$2.39 in FFY 2017. Under the FAST Act, this amount slightly decreased to \$2.30 million with similar amounts to be received in future years of the CIP. FY 2019 funding increased from prior years back up to \$2.75 million.

---

#### NON-TRADITIONAL FEDERAL SOURCES

Non-traditional Federal awards, including competitive and earmark grants, are beyond the scope of the previously discussed programs, but are impacted by the MAP-21 and subsequent FAST legislation. Additionally, grant award funding for an annual ADA Reimbursement grant award, which reimbursed the Operating Budget an average of \$3.17 million between FY 2011 – 2015 has lapsed resulting in a loss of revenue for the General Fund.

The Authority remains successful in competing for and being awarded non-traditional or competitive awards that provide the necessary resources enabling a number of important capital projects to be completed. The Authority will continue to seek and submit applications for needed SGR capital projects as competitive grant awards become available.

The Authority was recently awarded non-traditional funding for several projects under the proposed 2019-2023 Capital Improvement Plan (CIP). FY 2018 non-traditional funding was received from the Diesel Mitigation Trust Fund in the amount of \$2 million, Transit Oriented Development Planning in the amount of \$360,000, and \$471,333 from the TSA National Explosives Detection Canine Team Program. Projects identified are for track rehabilitation of Red Line Track West (W.117-West Park) \$6.6 million, \$11.6 million for Radio CAD/AVL System Replacement from the Federal Highway Association, and Triskett Building Compliance Facility upgrades for \$3.3 million. In FY 2017 the authority received competitive funds totaling \$4.0 million for continuous improvement of Red Line West at W.75<sup>th</sup> – W.98<sup>th</sup>, received non-traditional funding for the Career

Pathways Development award of \$985,754 received in FY 2015 to be used by the Authority for a work force development program. In FY 2013 a TIGER III grant award for \$15.63 million was received for construction work on the Little Italy - University Circle Station & rehabilitation of the Mayfield Road Track Bridge, and two non-formula awards were executed totaling a combined \$8.69 million for the Clifton Boulevard Transit Enhancement project. Earlier in FY 2012, the Authority received two competitive grant awards; One for \$3.96 million for improvements at the Brookpark & Windermere Red Line Stations and the Strongsville Park-N-Ride, and a second for \$1.61 million for the rehabilitation & expansion of the Southgate Park-N-Ride lot, and rehabilitation of the Triskett, North Olmsted Park-N-Ride, and Sprague/Fair parking lots. The capital funding from non-traditional Federal source grants are used to support years' worth of unfunded programmed capital projects identified in the CIP.

---

## STATE SOURCES

Administered through the Ohio Department of Transportation (ODOT), the State contributes up to one-half of the local match portion of Federal grant programs. In the current years the authority has been awarded various competitive grants under the Ohio Transit Preservation Partnership Program (OTPPP), Urban Transit Program (UTP) and Diesel Emission Reduction Grant (DERG) grant awards. Recently it has focused on contributions that are project-specific rather than for local match contributions, and it utilizes available Federal rather than State awards. In FY 2016, the OTPPP awarded \$4.0 million for rehabilitation of Red Line West 75<sup>th</sup> – W.98<sup>th</sup>, \$2.6 million was awarded under UTP and DERG grants for 40ft CNG buses. In FY 2017, OTPPP awarded \$5.2 million for continuous improvement of the Red Line West 117<sup>th</sup> –West Park, \$1.6 million was awarded under UTP for MCI diesel buses, and \$2.8 million awarded under DERG for 40ft CNG buses. In FY 2014-2015 executed a combined \$4.58 million OTPPP award for four replacement trolley buses and 40-Ft buses. In FY 2013, \$1.96 million OTPPP award for replacement trolley buses and in FY 2012, \$2.6 million to reconstruct the Red Line Airport Tunnel. In future budget years, the Authority will continue to submit applications to the State in support of the multi-year bus improvement and track reconstruction programs.

---

## LOCAL SOURCES

The Capital Improvement Budget requires local resources to support the match for most grant-funded projects, as well as support 100 percent locally funded projects in both the RTA Capital and RTA Development Funds. In FY 2019, the combined local contribution for the Authority's capital program of \$27.12 million are sourced from two transfers included within the General Fund. The first is an \$11.89 million transfer to the RTA Capital Fund to cover locally funded capital expenditures within the Capital Funds. The second, \$15.23 million transfer from the General Fund to the Bond Retirement Fund, covers projected debt service payments for the upcoming year. In recent years, these two transfers totaled \$31.35 million in FY 2016, decreased to \$27.31 in FY 2017, and are expected to remain steady into future budget years.

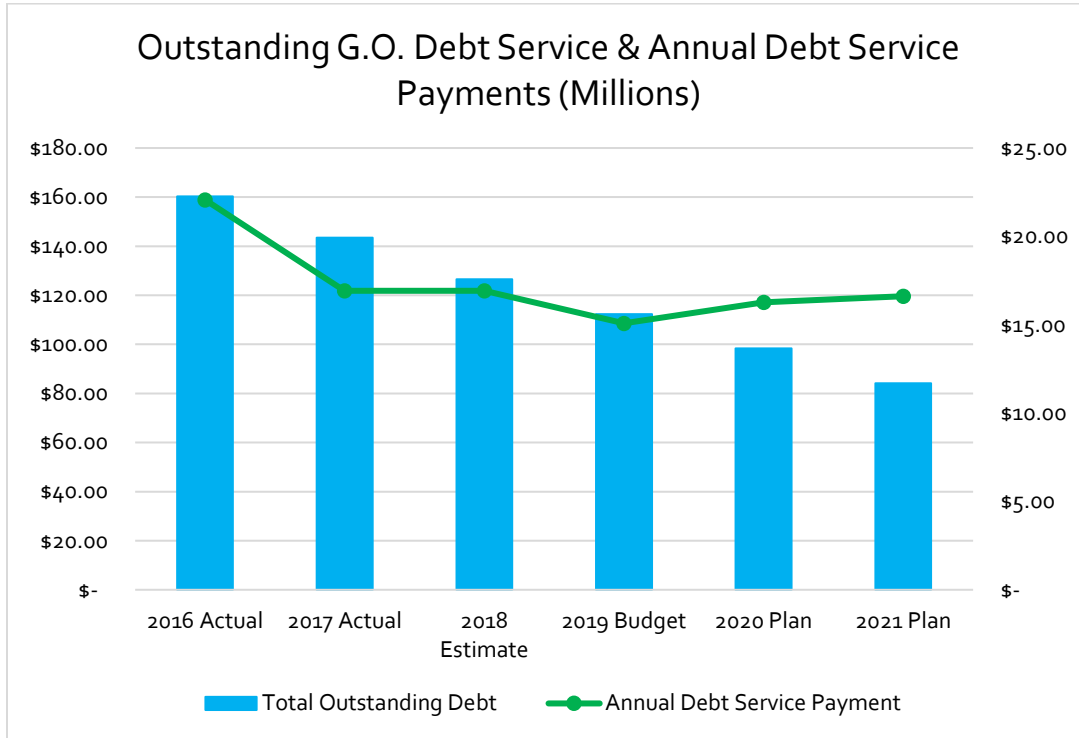
## DEBT MANAGEMENT

Although major capital improvements are mostly funded by Federal and State capital grants, the Authority is required to pay a percentage of most grant-funded projects from its own local sources. Debt sales are used for this purpose as well as to pay for major 100 percent locally funded projects. In FY 2015 Revenue Bonds (RB) were issued for \$30.0 million in new debt and \$21.4 million in a refunding issuance. All of the Authority's outstanding debt at the end of FY 2018 will mature by December 2039. The \$96.47 million balance of outstanding debt at the end of 2018 will require principal and interest payments of \$14.22 million in 2019. The principal and interest will increase to \$15.07 million after FY 2019 \$30 million debt issuance.

## DEBT LIMITATIONS

As a regional transit authority, Ohio law permits the Authority to issue both un-voted and voted general obligation bonds. In the past, only un-voted general obligation bonds were issued. As the name implies, un-voted debt is issued without the vote of the electorate, within the limitations provided under State law. General obligation bonds are secured by a pledge of the 'full faith and credit' of the Authority, which is backed by the power to levy and collect ad valorem property taxes.

Current debt obligations do not require the use of ad valorem property taxes to pay debt service, but are supported by the Authority's other revenue sources.



Debt Service	2016 Actual	2017 Actual	2018 Estimate	2019 Budget	2020 Plan	2021 Plan
Annual Debt Service Payment	\$ 22.07	\$ 16.92	\$ 16.92	\$ 15.08	\$ 16.26	\$ 16.62
Total Outstanding Debt	\$ 160.33	\$ 143.41	\$ 126.48	\$ 112.26	\$ 98.41	\$ 84.20

Figure 78: Outstanding G.O. Debt Service & SIB Loan and Annual Debt Service Payments

THERE ARE THREE LIMITATIONS RELATED TO THE AUTHORITY'S ABILITY TO ISSUE GENERAL OBLIGATION DEBT:

1. Section 306.40 of the Ohio Revised Code LIMITS THE PRINCIPAL AMOUNT OF BONDS that are supported by property taxes to five percent of the assessed valuation within the Authority's territory. The assessed valuation of property within Cuyahoga County applicable to the GCRTA at the end of 2019 of \$30.5 billion limits the amount of available debt to \$1.50 billion. This limitation is not currently very restrictive to the Authority in view of the large dollar limit and its applicability only to debt supported by property taxes.
2. The second limitation, also contained in Section 306.40 of the Ohio Revised Code, RESTRICTS ANNUAL PRINCIPAL AND INTEREST PAYMENTS ON THE AUTHORITY'S UNVOTED GENERAL OBLIGATION BONDS to one-tenth of one percent (0.1 percent) of the assessed valuation. Based on the assessed valuation of \$30.5 billion, annual debt servicing capacity would be close to \$30.5 million. This provision applies to all debt issued by the Authority and is the most restrictive of the limitations, though it exceeds current debt payment levels.
3. The third constraint derives from both the Ohio Constitution and the Ohio Revised Code. Article XII, Section 11, of the Constitution REQUIRES THAT ANY POLITICAL SUBDIVISION INCURRING DEBT MUST PROVIDE FOR THE LEVYING OF TAXES sufficient to pay principal and interest on that debt. Section 2 of the same Article and Section 5705.02 of the Ohio Revised Code limits to ten mills (one mill equals \$1 of tax for each \$1,000 of assessed valuation) for the amount of taxes that may be levied without a vote of the citizens.

This 'indirect' limit on un-voted debt prohibits the county and all political subdivisions from jointly levying property taxes above ten mills without a vote of the people. Thus, the ability of the Authority to issue un-voted general obligation debt is 'shared' with overlapping political subdivisions. As these entities issue debt subject to the 10-mill limitation, the amount of room available for other subdivisions' debt is reduced. Political subdivisions include Cuyahoga County, various municipal corporations, school districts, and townships within the taxing district.

At 10.38 mills, total outstanding debt issued by various public entities within the County exceeds the un-voted ten-mill limit, restricting the Authority's ability to issue any General Obligation Bonds. The Authority's ability to issue more general obligation debt remains limited under the third constraint, in that the total outstanding debt issued as of year-end 2016 by various public entities within the County exceeds the un-voted ten-mill limit. Due to this restraint in previous years, the Authority issued new debt of \$25.0 million in Revenue Bonds, rather than General Obligation Bonds, in 2012 and a new issuance of \$30 million in 2015.

## OPERATING IMPACTS

A benefit of considering the Operating and Capital Budgets concurrently is the ability to gauge the impact of Capital Improvement decisions on the Operating Budget. Financial requirements and programmed activities within the Authority's capital program will impact the 2019 Operating Budget in a number of ways such as the following:

- The Trustees' commitment to balancing sales & use tax revenues between the Capital Improvement Fund and supporting operation needs. The estimated transfers to the Capital Fund during FY 2019 is \$11.89 million.
- In tandem with increased capital requirements to achieve a SGR, the challenges with securing needed grant award funds from Federal, State and other intergovernmental agencies places continual pressure on the General Fund to contribute increasingly significant amounts of financial resources to the Capital Improvement Fund.
- Estimated debt service and interest payments of \$15.07 million will require a General Fund transfer to the Bond Retirement Fund to offset the debt in FY 2019, further limiting the amount available for operating expenditures.
- Some Operating Budget expenditures, primarily personnel costs across the Authority, are incurred in support of ongoing activities spurred by capital construction projects. Eligible costs are reimbursed to the General Fund as revenue from the RTA Development Fund. In FY 2019, this activity will result in a projected \$1.0 million in grant funded reimbursements to the General Fund.
- Formula grant funds are eligible to reimburse preventive maintenance (PM) activities with the Operating Budget. For the five fiscal years covering FY 2006 thru FY 2010, \$141.19 million of Federal formula capital grants were used for this purpose. In the following five fiscal years, 2011 – 2015, the improved financial position of the Authority reduced need of formula funding for preventive maintenance activities to \$75.39 million, then redirected for needed capital improvements. In FY 2016, PM activities ended the year at \$21.20 million. In FY 2017, PM activities decreased slightly to \$20.0 million, and FY 2018 increased slightly to \$22.7 million as the service needs of the Operating Budget draw resources from the Capital program.
- The capital program helps to maintain the Authority's capital assets in a state of good repair that facilitates improved delivery of transportation services and helps to reduce maintenance costs incurred in the operating budget.
- Daily activities within the FY 2019 General Fund or Operating Budget are supported by \$3.33 million of budget appropriation for various capital projects included within the RTA Capital Fund. These generally include smaller (less than \$150,000) equipment & non-revenue vehicle purchases and facilities maintenance activities, and are exclusively supported by local funds from Sales & Use Tax revenue.

## CAPITAL PROJECT CATEGORIES

The combined 2019–2023 Capital Improvement Plan (CIP) totals \$370.96 million of capital budget appropriations over the five year plan with projects sorted among eight capital project categories – Bus Garages, Buses, Equipment & Vehicles, Facilities Improvements, Other Projects, Preventive Maintenance/Operating Reimbursements, Rail Projects, and Transit

Centers. For the approved 2019 CIP, three categories comprise \$54.95 million, or 80.73 percent, of the combined \$68.07 million capital budget appropriations. The largest with \$20.91 million is the Rail Project category, second largest with \$20.00 million under Preventive Maintenance/Operating Reimbursements, followed by the Bus project category with \$14.04. The five remaining categories totaling \$13.14 million within the approved capital budget are shown in Figure 79.

Reflecting the challenging financial picture the Authority faces, the largest budgeted category over the five-year CIP is the Preventive Maintenance/Operating Reimbursements grant funded with \$100.00 million, or 26.95 percent of the CIP budget over the five years. This is followed by Rail Projects with \$98.95 million, 26.67 percent, and the Buses category at \$86.07 million, or 23.20 percent, followed by the other remaining categories to a lesser degree as prioritized by the needs assessment and corresponding allocation of available capital funds.

CATEGORY	2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2019-2023
Bus Garages	\$3.34	\$0.00	\$0.00	\$0.00	\$0.00	\$3.34
Buses	\$14.04	\$18.22	\$18.15	\$18.27	\$17.39	\$86.07
Equipment & Vehicles	\$1.93	\$1.40	\$1.71	\$1.57	\$1.51	\$8.11
Facilities Improvements	\$4.93	\$14.79	\$12.17	\$14.92	\$13.00	\$59.81
Other Projects	\$2.64	\$2.64	\$2.64	\$2.64	\$2.64	\$13.19
Preventive Maint./Oper. Reim	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$100.00
Rail Projects	\$20.91	\$21.20	\$21.18	\$19.13	\$16.54	\$98.95
Transit Centers	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$1.50
<b>TOTALS</b>	<b>\$68.07</b>	<b>\$78.55</b>	<b>\$76.15</b>	<b>\$76.82</b>	<b>\$71.38</b>	<b>\$370.96</b>

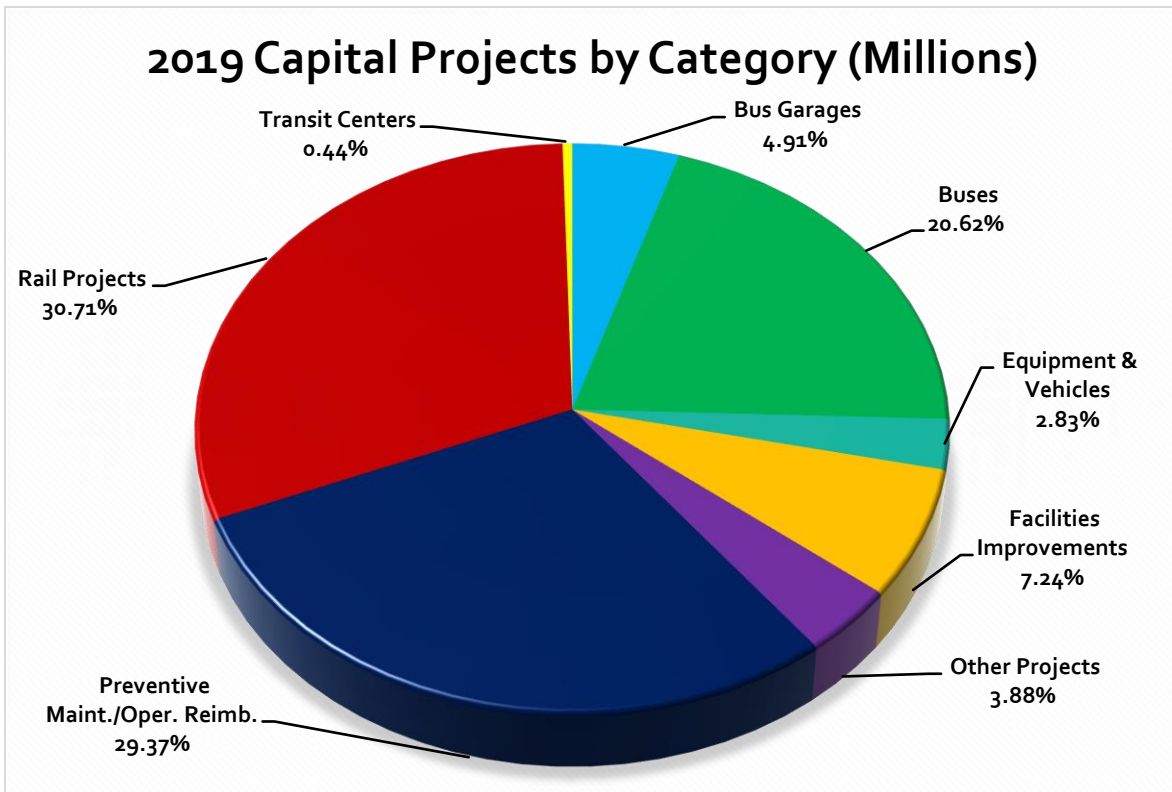


Figure 79: Capital Projects by Category

## RTA CAPITAL FUND

The RTA Capital Fund supports smaller capital projects and includes more routine expenditures. Projects within this fund are generally less than \$150,000 and have a useful life not exceeding five years. The RTA Capital Fund is 100 percent locally funded, almost exclusively through transfers of sales & use tax revenue from the Operating Budget. Items included in the RTA Capital Fund are segregated into two types:

- Routine Capital, which includes the acquisition of non-revenue vehicles and small equipment
- Asset Maintenance, which covers small rehabilitation projects to maintain the Authority's existing assets.

Figure 81 trends the annual fund balance for the RTA Capital Fund. Other than a small amount of investment income, the main source of revenue is the sales & use tax revenue transfer from the General Fund to the RTA Capital Fund, which began in 1989. Anticipated revenue in FY 2019 will include \$11.89 million of programmed transfers from the General Fund and investment income of \$60,000. The transfer amount, in combination with the General Fund transfer of \$15.23 million to the Bond Retirement Fund, brings the total commitment to Capital to \$27.12 million, or 13.08 percent of the projected 2019 sales & use tax revenue.

Budgeted FY 2019 expenditures within the RTA Capital Fund of \$12.31 million include \$1.41 million for Asset Maintenance or facilities projects, \$1.93 million for Routine Capital or equipment purchases, and a \$8.98 million transfer into the RTA Development Fund for use on providing the local match on grant awards and 100 percent locally funded projects. The estimated 2019 ending balance of \$2.85 million is a decrease from prior years due to a decrease in transfers from General Fund to maintain a sustainable Operating Budget.

### RTA Capital Fund Balance Analysis

	2016	2017	2018	2019	2020	2021	2022	2023
	Actual	Actual	Actual	Amended Budget	Plan	Plan	Plan	Plan
<b>Beginning Balance</b>	<b>2,114,010</b>	<b>3,074,133</b>	<b>1,299,482</b>	<b>3,214,558</b>	<b>2,847,301</b>	<b>913,126</b>	<b>940,277</b>	<b>1,574,647</b>
<b>Revenue</b>								
Transfer from General Fund	9,472,060	10,271,331	15,259,919	11,887,181	13,646,258	12,922,138	17,053,177	14,001,499
Investment Income	25,784	41,632	62,161	60,000	65,000	65,000	65,000	65,000
Other Revenue	0	0	1,855	0	0	0	0	0
<b>Total Revenue</b>	<b>9,497,844</b>	<b>10,312,963</b>	<b>15,323,935</b>	<b>11,947,181</b>	<b>13,711,258</b>	<b>12,987,138</b>	<b>17,118,177</b>	<b>14,066,499</b>
<b>Total Resources</b>	<b>11,611,854</b>	<b>13,387,096</b>	<b>16,623,417</b>	<b>15,161,739</b>	<b>16,558,559</b>	<b>13,900,264</b>	<b>18,058,454</b>	<b>15,641,146</b>
<b>Expenditures</b>								
Asset Maintenance	1,020,521	2,322,492	1,920,700	1,405,000	1,680,672	1,386,224	1,399,664	1,383,144
Routine Capital	2,182,945	2,920,867	2,053,904	1,925,183	1,280,506	1,039,508	1,199,888	984,488
Other Expenditures	0	0	0	0	0	0	0	0
Transfer to RTA Development Fund	5,334,255	6,844,255	9,434,255	8,984,255	12,684,255	10,534,255	13,884,255	12,184,255
Reimbursement to FTA	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>8,537,721</b>	<b>12,087,614</b>	<b>13,408,859</b>	<b>12,314,438</b>	<b>15,645,433</b>	<b>12,959,987</b>	<b>16,483,807</b>	<b>14,551,887</b>
<b>Ending Balance</b>	<b>3,074,133</b>	<b>1,299,482</b>	<b>3,214,558</b>	<b>2,847,301</b>	<b>913,126</b>	<b>940,277</b>	<b>1,574,647</b>	<b>1,089,259</b>

Figure 80: RTA Capital Fund Balance

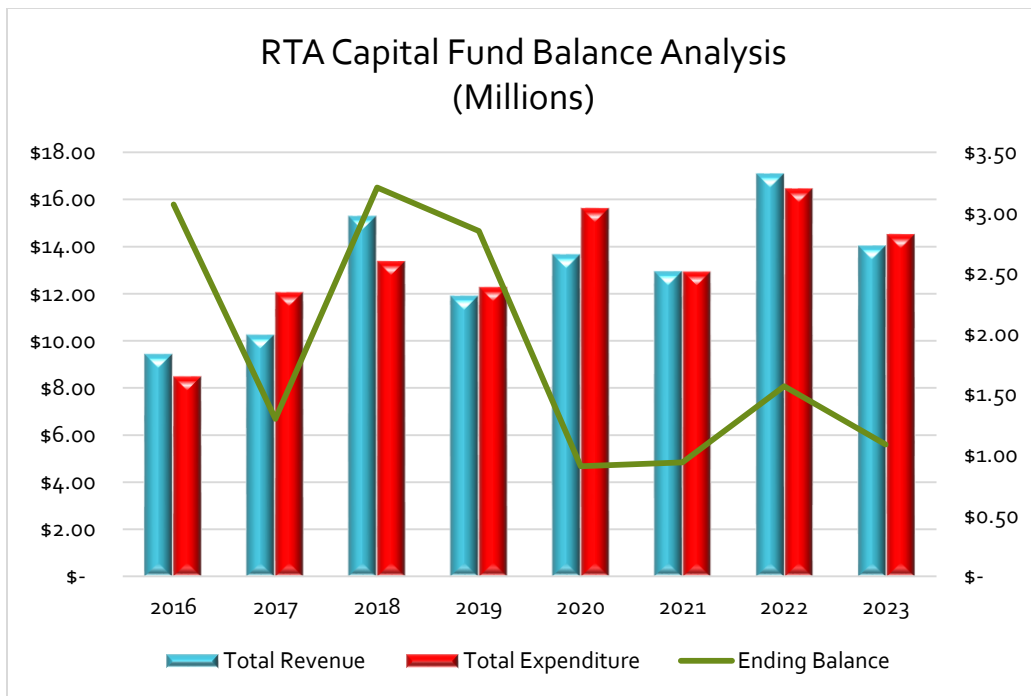


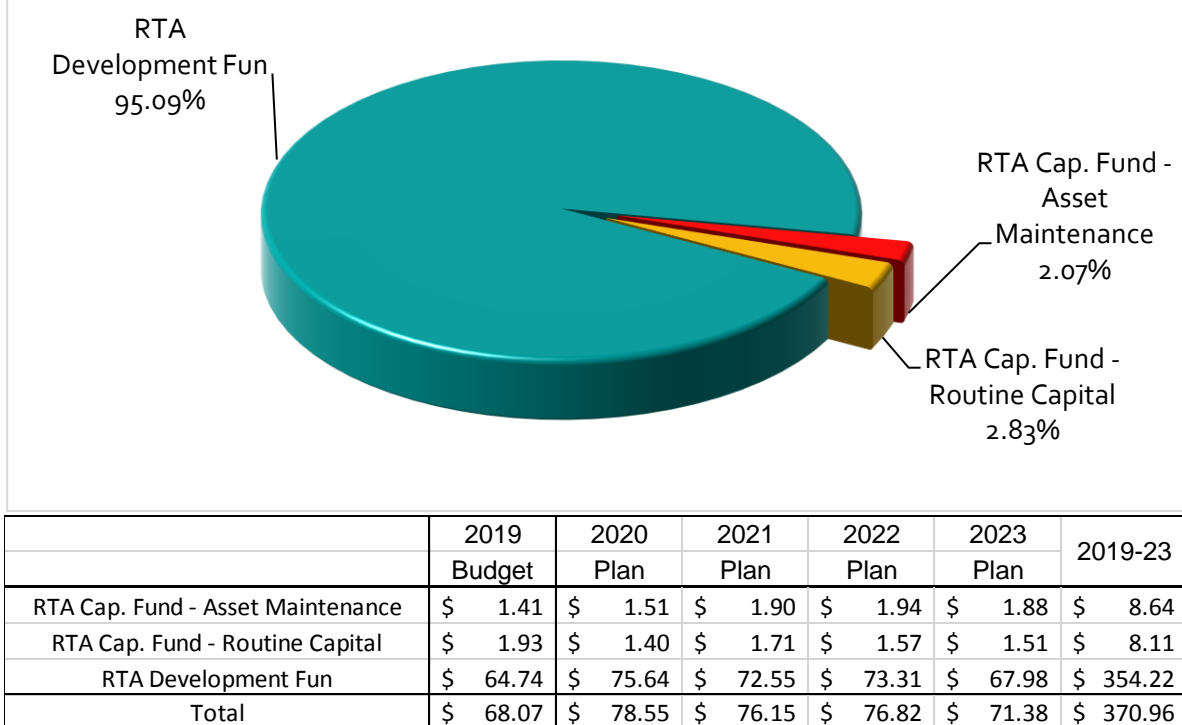
Figure 81: RTA Capital Fund Balance Trends

#### ASSET MAINTENANCE PROJECTS

Asset Maintenance consists of locally funded projects that maintain, repair, or rehabilitate an existing facility of the Authority. These include projects of smaller scope, duration and expense than those included in the RTA Development Fund. The duration of these projects is often less than one year with the cost generally not exceeding \$150,000, and a useful life of less than five years.

The FY 2019 budget appropriation for Asset Maintenance projects is \$1.41 million, representing 2.07 percent of the overall FY 2019 Capital Improvement Budget as represented in Figure 82. Most of this amount is budgeted within two organizational areas of the Authority; Engineering & Project Development and Asset & Configuration Management. Engineering & Project Develop is responsible for coordinating larger construction-related asset maintenance projects throughout the entire Authority, which lends to managing a majority of Asset Maintenance Funds at an amount of \$895,000 or 63.70 percent. Asset and Configuration Management manages \$350,000, or 24.91 percent of all Asset Maintenance projects, budgeted within the smaller cost facilities projects within the Operations Division and the Main Office. Remaining budgeted projects within Asset Maintenance are for location specific facilities projects, focused energy efficiency or lighting retrofits throughout the Authority, or in the Asset Maintenance Contingency project for unanticipated facilities improvements needed throughout the year.

## 2019 Capital Project Budgets by Fund (Millions)



**Figure 82: Capital Project Budgets by Fund**

### ROUTINE CAPITAL PROJECTS

This category includes the purchase of vehicles and equipment, where each unit has a value of at least \$5,000 and a useful life greater than one year. Furthermore, these items are generally less than \$150,000 in cost, in many cases have a useful life of five years or less, and are designed to efficiently meet the identified operational equipment needs within the General Fund or Operating Budget. As such, the expectation for Routine Capital projects is the approved budget appropriations are fully committed, if not expensed within the calendar year.

As indicated in Figure 82, the budget appropriation for Routine Capital projects accounts for \$1.93 million, or 2.84 percent, of the 2019 CIP Budget. Reflecting the support of daily operations, the greatest portion of the budget appropriation for Routine Capital projects in the 2019 CIP is within the Operations Division, which has \$550,000 programmed for the non-revenue vehicle lease or replacement program followed by \$267,000 for equipment pool projects throughout various Operating Division Departments, Information Technology with \$215,000, and a budgeted Transit Police Department security pool program of \$205,000. The remaining \$688,183 budgeted throughout the Authority for Administration, and contingencies.



**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA CAPITAL FUND**

**ASSET MAINTENANCE (FACILITIES) PROJECTS**

Department / Project Name	Project Number	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2019-23 Total
<b>33 Asset &amp; Configuration Mgt.</b>							
Administration Facilities Maint. Pool	P32335X59	\$50,000	\$50,000	\$60,000	\$60,000	\$60,000	\$280,000
Elevator/Escalator Maintenance Pool	P32335X59	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Operating Facilities Maintenance Pool	P32335X59	\$100,000	\$150,000	\$160,000	\$188,000	\$160,000	\$758,000
Passenger Facilities Maintenance Pool	P32335X59	\$100,000	\$150,000	\$180,000	\$160,000	\$160,000	\$750,000
		<b>\$350,000</b>	<b>\$450,000</b>	<b>\$500,000</b>	<b>\$508,000</b>	<b>\$480,000</b>	<b>\$2,288,000</b>
<b>39 Fleet Management</b>							
Bus Districts Lift Rebuilds/Rehab's	P47395X59	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
		<b>\$10,000</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$50,000</b>
<b>57 Programming &amp; Planning</b>							
Transit Waiting Environment	P28575059	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
		<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$250,000</b>
<b>80 Engineering &amp; Project Dev.</b>							
Facilities - ADA Projects	P32805X49	\$70,000	\$95,000	\$125,000	\$150,000	\$150,000	\$590,000
Passenger Facilities Maint. Pool	P32805X49	\$300,000	\$240,000	\$325,000	\$325,000	\$325,000	\$1,515,000
Operating Facilities Maint. Pool	P32805X49	\$525,000	\$465,000	\$615,000	\$700,000	\$769,000	\$3,074,000
Paratransit Parking Lot Expansion	P32805189	\$0	\$0	\$170,000	\$0	\$0	\$170,000
							\$0
		<b>\$895,000</b>	<b>\$800,000</b>	<b>\$1,235,000</b>	<b>\$1,175,000</b>	<b>\$1,244,000</b>	<b>\$5,349,000</b>
<b>67 OFFICE OF MGT. &amp; BUDGET</b>							
Energy Retrofits	P32675X39	\$0	\$100,000	\$0	\$100,000	\$0	\$200,000
Asset Maintenance Contingency	P49995059	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
		<b>\$100,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>\$700,000</b>
<b>TOTAL ASSET MAINTENANCE</b>		<b>\$1,405,000</b>	<b>\$1,510,000</b>	<b>\$1,895,000</b>	<b>\$1,943,000</b>	<b>\$1,884,000</b>	<b>\$8,637,000</b>

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA CAPITAL FUND**

**ROUTINE CAPITAL (EQUIPMENT) PROJECTS**

Department / Project Name	Project Number	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2019-23 Total
<b>31 Paratransit</b>							
Paratransit District Equipment Pool	P47310179	\$0	\$0	\$12,000	\$0	\$0	\$12,000
		<b>\$0</b>	<b>\$0</b>	<b>\$12,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$12,000</b>
<b>32 Rail District</b>							
Rail District Equipment Pool	P47320149	\$90,000	\$76,800	\$20,000	\$45,000	\$30,000	\$261,800
		\$0	\$0	\$0	\$0	\$0	\$0
		<b>\$90,000</b>	<b>\$76,800</b>	<b>\$20,000</b>	<b>\$45,000</b>	<b>\$30,000</b>	<b>\$261,800</b>
<b>34 Transit Police</b>							
Security Improvements Pool	P44340249	\$205,000	\$205,000	\$205,000	\$205,000	\$205,000	\$1,025,000
		\$0	\$0	\$0	\$0	\$0	\$0
		<b>\$205,000</b>	<b>\$205,000</b>	<b>\$205,000</b>	<b>\$205,000</b>	<b>\$205,000</b>	<b>\$1,025,000</b>
<b>39 Fleet Management</b>							
Non-Revenue Vehicle Imp. Program	P46390159	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
NRVIP - Lease Payments 5yr Opt.	P46390169	\$400,000	\$400,000	\$450,000	\$450,000	\$450,000	\$2,150,000
Overhead Catenary Repair Vehicle	P46390279	\$0	\$0	\$0	\$0	\$0	\$0
Fleet Management Equipment Pool	P47390349	\$107,000	\$80,000	\$142,000	\$40,000	\$0	\$369,000
		<b>\$657,000</b>	<b>\$630,000</b>	<b>\$742,000</b>	<b>\$640,000</b>	<b>\$600,000</b>	<b>\$3,269,000</b>
<b>46 Hayden District</b>							
Hayden District Equipment Pool	P47460169	\$50,000	\$40,000	\$50,000	\$0	\$30,000	\$170,000
		<b>\$50,000</b>	<b>\$40,000</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$170,000</b>
<b>49 Triskett District</b>							
Triskett District Equipment Pool	P47490159	\$20,000	\$86,000	\$20,000	\$0	\$20,000	\$146,000
		<b>\$20,000</b>	<b>\$86,000</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$146,000</b>
<b>61 Information Technology</b>							
IT Systems Development Pool	P42610149	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$650,000
PC Replacement Program	P42610169	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Thin Client Replacement II	P42610179	\$0	\$0	\$0	\$100,000	\$10,000	\$110,000
Laser Printer Replacement Program	P42610299	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$175,000
District Video Conferencing Equip	New	\$0	\$0	\$100,000	\$2,500	\$2,500	\$105,000
Oracle EBS Point Release Upgrade	New	\$0	\$0	\$0	\$70,000	\$70,000	\$140,000
F/C Mobile Ticketing e-validation	New	\$0	\$0	\$0	\$0	\$40,000	\$40,000
		<b>\$215,000</b>	<b>\$215,000</b>	<b>\$315,000</b>	<b>\$387,500</b>	<b>\$337,500</b>	<b>\$1,470,000</b>
<b>62 SUPPORT SERVICES</b>							
Office Equipment/Furniture Pool	P43620149	\$40,000	\$45,000	\$45,000	\$45,000	\$45,000	\$220,000
Two Color Press Machines	P43620189	\$92,500	\$0	\$0	\$0	\$0	\$92,500
Paratransit Call Center Furniture	New	\$0	\$0	\$55,000	\$0	\$0	\$55,000
Offset Press Machine Lease 5YR Opt.	New	\$455,683	\$0	\$144,000	\$144,000	\$144,000	\$887,683
		<b>\$588,183</b>	<b>\$45,000</b>	<b>\$244,000</b>	<b>\$189,000</b>	<b>\$189,000</b>	<b>\$1,255,183</b>
<b>67 OFFICE OF MGT. &amp; BUDGET</b>							
Routine Capital Contingency	P49990159	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
		<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$500,000</b>
<b>TOTAL ROUTINE CAPITAL</b>		<b>\$1,925,183</b>	<b>\$1,397,800</b>	<b>\$1,708,000</b>	<b>\$1,566,500</b>	<b>\$1,511,500</b>	<b>\$8,108,983</b>
<b>RTA CAPITAL FUND TOTAL</b>		<b>\$3,330,183</b>	<b>\$2,907,800</b>	<b>\$3,603,000</b>	<b>\$3,509,500</b>	<b>\$3,395,500</b>	<b>\$16,745,983</b>

**RTA DEVELOPMENT FUND**

The Authority's Capital Improvement Funds are used to account for the acquisition, construction, replacement, repair, and renovation of major capital facilities and equipment. The RTA Development Fund is the larger capital fund that includes rehabilitation & expansion projects that are greater than \$150,000 and have a useful life of more than five years. This Fund

is primarily, but not exclusively, supported through Federal grant awards providing 80 percent of the project funds, and requiring a 20 percent local match.

Federal Capital grants received by the Authority normally requires local match funds, normally 20 percent, be set aside and available for Capital Improvement projects. During the budget process, local match requirements, as well as potential locally funded projects, are reviewed and resources provided through Sales & Use Tax contributions transferred from the RTA Capital Fund, available proceeds from debt sales, and interest income.

In 2015, \$11.65 million was transferred from the RTA Capital Fund to the RTA Development Fund to provide the local match for Operating Budget expense reimbursements and to cover other locally funded expenditures within the RTA Development Fund. The transfer decreased to \$5.33 million in FY 2016, and in FY 2017 to \$6.84 million. The amount remained relatively increased in FY 2018 at \$9.4 million, and increase slightly to \$8.98 million in FY 2019 due to the financial demands of the Authority's operating budget.

### RTA Development Fund Balance Analysis

	2016	2017	2018	2019	2020	2021	2022	2023
	Actual	Actual	Actual	Amended Budget	Plan	Plan	Plan	Plan
<b>Beginning Balance</b>	<b>42,499,967</b>	<b>30,037,486</b>	<b>20,136,261</b>	<b>18,099,415</b>	<b>36,608,688</b>	<b>36,268,411</b>	<b>23,206,701</b>	<b>17,874,462</b>
<b>Revenue</b>								
Debt Service Proceeds	0	0	0	30,000,000	25,000,000	0	0	25,000,000
Transfer from RTA Capital Fund	5,334,255	6,844,255	9,434,255	8,984,255	12,684,255	10,534,255	13,884,255	12,184,255
Transfer from the Reserve Fund	0	0	2,000,000	0	0	0	0	0
Investment Income	260,886	284,557	258,572	800,000	500,000	700,000	500,000	700,000
Federal Capital Grants	47,732,909	48,455,538	56,531,115	42,082,188	74,117,067	64,426,827	52,937,977	50,280,376
State Capital Grants	110,699	0	827,365	1,384,658	1,384,658	1,384,658	1,384,658	1,384,658
Other Revenue	0	329,920	-32,530	0	0	0	0	0
<b>Total Revenue</b>	<b>53,438,749</b>	<b>55,914,270</b>	<b>69,018,777</b>	<b>83,251,101</b>	<b>113,685,980</b>	<b>77,045,740</b>	<b>68,706,890</b>	<b>89,549,289</b>
<b>Total Resources</b>	<b>95,938,716</b>	<b>85,951,756</b>	<b>89,155,038</b>	<b>101,350,516</b>	<b>150,294,668</b>	<b>113,314,152</b>	<b>91,913,590</b>	<b>107,423,751</b>
<b>Expenditures</b>								
Capital Outlay	65,901,230	65,815,495	71,055,623	64,741,828	114,026,257	90,107,451	74,039,128	70,322,204
Other Expenditures	0	0	0	0	0	0	0	0
<b>Total Expenditures</b>	<b>65,901,230</b>	<b>65,815,495</b>	<b>71,055,623</b>	<b>64,741,828</b>	<b>114,026,257</b>	<b>90,107,451</b>	<b>74,039,128</b>	<b>70,322,204</b>
<b>Ending Balance</b>	<b>30,037,486</b>	<b>20,136,261</b>	<b>18,099,415</b>	<b>36,608,688</b>	<b>36,268,411</b>	<b>23,206,701</b>	<b>17,874,462</b>	<b>37,101,547</b>

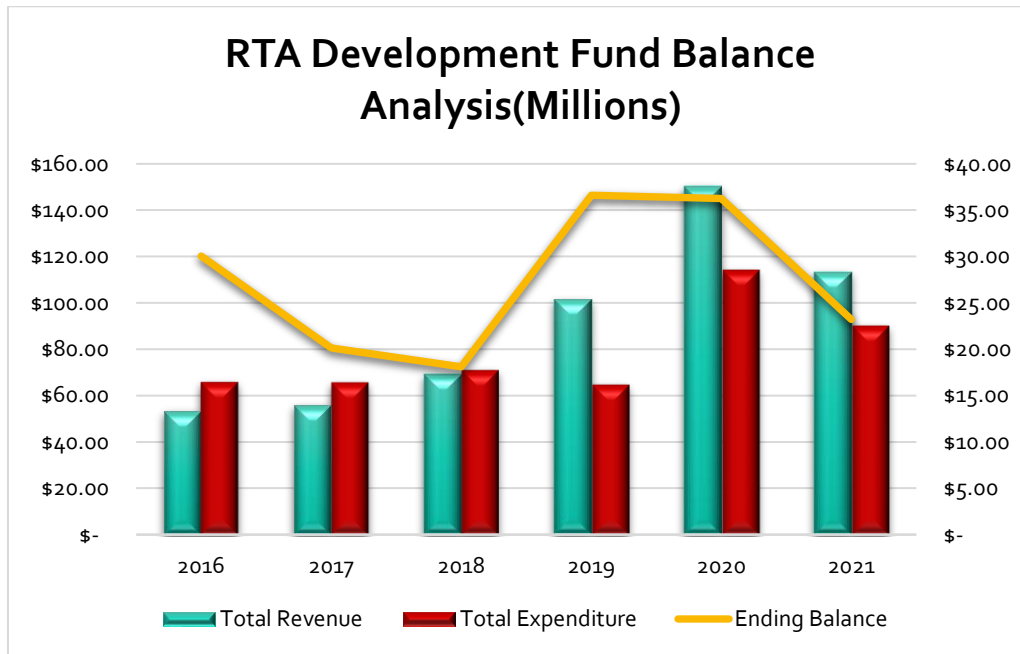
Figure 83: RTA Development Fund Balance Analysis

Other local funding sources include debt service, revenue bonds, and interest income. The Authority last issued debt, \$30.0 million of Revenue Bonds, in FY 2015 to support capital project activities and an additional debt service of approximately \$30.00 million is expected in FY 2019 with an additional \$25.00 million in 2020. Interest income has varied over the years from a high of \$260,886 in FY 2016 to an estimated \$800,000 in FY 2019 due to fluctuations in the interest rates and fund balance over the years

Figure 84, presents the fund balance analysis for the RTA Development Fund. The balance typically fluctuates depending upon new debt service issuances, the Authority receiving a competitive non-formula grant award, and scheduled construction activities for the year. At the end of FY 2016, the fund balance was \$30.03 million. Capital construction activities over the following years drew the fund balance down as it declined to \$20.13 million at the end of FY 2017 due to the issuance of Revenue bonds. Fund balance decreased again to \$18.09 million at the end of FY 2018. It is expected to again increase to \$36.61 million in FY 2019 due to a planned debt service in that year.

Federal funding resources flow into the Authority through the FTA Grant funds. When grant-funded capital improvements are made, funds are paid to the Authority from the Federal Government via wire transfer. Payments to vendors are then paid from the Authority, and the assets acquired are accounted for in the capital funds. A similar process is in place to draw down State grant funds.

As reflected in the fund balance statement Figure 83, various funding sources including Federal capital grants, a planned debt service, State Capital grants, and 100-percent local funds will help support expected expenditures or cash outlays of \$64.74 million in 2019. Of particular note, the expenditures within the Fund Balance Analysis are presented on a cash basis and represent estimates of the actual cash flow. Thus, the expenditure estimates differ from the budget appropriations included in the 2019-23 CIP, which are based upon the establishment of the necessary budget appropriation for the capital projects.



	2016	2017	2018	2019	2020	2021
	Actual	Actual	Actual	Budget	Plan	Plan
Beginning Balance	\$ 42.50	\$ 30.04	\$ 20.14	\$ 18.10	\$ 36.61	\$ 36.27
<b>Total Revenue</b>	<b>\$ 53.44</b>	<b>\$ 55.91</b>	<b>\$ 69.02</b>	<b>\$ 101.35</b>	<b>\$ 150.29</b>	<b>\$ 113.31</b>
Total Resources	\$ 95.94	\$ 85.95	\$ 89.16	\$ 101.35	\$ 150.29	\$ 113.31
<b>Total Expenditure</b>	<b>\$ 65.90</b>	<b>\$ 65.82</b>	<b>\$ 71.06</b>	<b>\$ 64.74</b>	<b>\$ 114.03</b>	<b>\$ 90.11</b>
<b>Ending Balance</b>	<b>\$ 30.04</b>	<b>\$ 20.14</b>	<b>\$ 18.10</b>	<b>\$ 36.61</b>	<b>\$ 36.27</b>	<b>\$ 23.21</b>

Figure 84: RTA Development Fund Analysis Trend

### RTA DEVELOPMENT FUND PROJECTS

The total budget appropriation of \$64.74 million for RTA Development Fund projects accounts for 95.09% of the Authority's Capital Improvement Budget as allocated for 2019, as seen in Figure 82. The inclusion of capital projects within this fund is based upon the establishment of budget appropriation authority and includes projects that may have already received grant-funding, projects in the preliminary application stage, those included in the Transportation Improvement Program (TIP), larger projects supported by 100 percent local funds, or projects without an identified funding source.

The following highlights some of the larger programmed RTA Development Fund Improvement Projects programmed for FY 2019. Please refer to pages at the end of this section for a complete list of projects included within the five-year RTA Development Fund CIP.

#### BUS GARAGES - \$3.33 MILLION

Triskett CNG Building Compliance is the sole project programmed within the Bus Garages category in FY 2019. This project will allow the Triskett Operating District to fuel their future planned CNG fleets.

---

#### BUS/PARATRANSIT IMPROVEMENT PROGRAMS - \$14.04 MILLION

The 2019 CIP focuses vehicle reliability improvements through a multi-year bus spare parts program, which meets objectives for bus replacements and the SGR. Programmed capital budget appropriations include funds to purchase replacement of up to 9 65' commuter coaches in FY 2019. Over the next five years, 80 40' buses, 15 45' Commuter Diesel Buses, and up to 33 60' Low Floor Artic buses are planned to be replaced.

---

#### EQUIPMENT & VEHICLES - \$0.00 MILLION

FY 2019 does not allocate for any replacement of Equipment and Vehicles. Budget appropriation within this category in the past have included improvements to the Data Center, Intranet Development, and Network improvements.

---

#### FACILITIES IMPROVEMENTS - \$3.52 MILLION

The Facilities Improvements budget appropriation of \$400,000 in FY 2019 are set aside for Tower City – East portal Concrete Repairs, \$1.4 Million has been set aside for E. 116<sup>th</sup> Street road bridge rehabilitation, and \$450,000 for West 117<sup>th</sup> Street Track bridge rehabilitation.

---

#### OTHER PROJECTS - \$2.64 MILLION

The 2019 budget for this project category includes two projects – a \$2.0 million budget contingency project and a \$637,500 for various transportation studies depending upon the availability of grant funds.

---

#### PREVENTIVE MAINTENANCE / OPERATING BUDGET REIMBURSEMENTS - \$20.00 MILLION

This category includes the preventive maintenance reimbursements to the General Fund. This category includes formula and non-formula grant funded reimbursements for various eligible activities within the General Fund with a 2019 budget appropriation of \$20.00 million.

---

#### RAIL PROJECTS- \$20.91 MILLION

In FY 2019, the Rail Projects category includes a wide diversity of capital projects and, is one of the largest of the CIP. Major programmed areas within this category include a combined \$1.30 million for OCS Replacement and Upgrade, \$10.31 million for track rehabilitation, and \$1.78 million for the Rail Profile Grinding Program.

The two major station projects, completion of E. 116<sup>th</sup> and design of E. 79<sup>th</sup> street station will take place in FY 2019. The \$10.31 million for track rehabilitation will improve the track state of good repair from WestPark to Puritas station. Phase two will occur on the Buckeye/Woodhill LR Retaining wall for \$1.41 Million, \$151,000 will be used for the substation improvement plan and other budgeted amounts allocated throughout for various rail engineering and infrastructure improvements will occur in FY2019.

---

#### TRANSIT CENTERS / BUS LOOPS – \$0.30 MILLION

The 2019 capital budget includes \$300,000 for various grant funded passenger enhancements throughout the Authority. Many of the enhancement funds are allocated for Bus Shelter, Landscaping, and ADA Access.

The purpose of the Long Range Plan of the Authority is to support its Mission and Policy goals by providing a guidance for developing a balanced, multi-modal transit system that meets the mobility needs of Cuyahoga County residents and all visitors safely, efficiently, and cost-effectively.

The original plan was drafted in 1998 and updated in 2004 to reflect the existing system's state of repair; the future plans of key stakeholders, and the economic conditions of the region. In 2008, RTA initiated an update of the Long Range Plan, titled the "GCRTA Strategic Plan" that was completed in 2012. The goals of the Plan are to help determine the course of projects and services within GCRTA that can result in the increase of ridership, increase in revenues, and bring the system into a state of good repair while being grounded in the economic and the financial reality of public transportation funding in Northeast Ohio.

The existing Key Transit 2025 project elements include the following:

- Exploring the feasibility of additional Bus Rapid Transit projects in other major travel corridors;
- Completing the Transit Center Network; Initiating Transit-Oriented Development Projects;
- Continuing to implement the Transit Waiting Environment (TWE) Program;
- Reconstructing various Rapid Transit Stations as part of the FTA ADA Key Station requirement agreement.

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE		PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
CATEGORY / PROJECT NAME								
<b>BUS GARAGES</b>								
<b>BUS GARAGES</b>								
Triskett CNG Building Compliance FFY 2018 Federal Formula Grants	3,335,938	P22800160	3,335,938	0	0	0	0	3,335,938
<b>TOTAL - BUS GARAGES</b>			<b>3,335,938</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,335,938</b>
<b>BUS REPLACEMENTS</b>								
<b>BUS IMPROVEMENT PROGRAM</b>								
2018-2020 Bus Improvement Program	29,775,646	P11390180	13,639,811	0	0	0	0	13,639,811
SFY 2019 ODOT CMAQ Grant	0							
SFY 2019 ODOT UTP Award	1,637,728							
FFY 2018 Federal Formula Grants	4,371,961							
FY 2019 Local Funds	125,000							
<b>FY 2019 (TBD)</b>	<b>7,505,122</b>							
SFY 2020 ODOT CMAQ Grant	5,578,125	P11390190		16,135,836				16,135,836
SFY 2020 ODOT UTP Award	1,637,728	P11390X00						
FFY 2019 Federal Formula Grants	4,830,350							
FY 2020 Local Funds	125,000							
<b>FY 2020 (TBD)</b>	<b>3,964,633</b>							
2021-2023 Bus Improvement Program	48,157,675	P11390290			16,245,331			16,245,331
SFY 2021 ODOT CMAQ Grant	0	P11390X10						
SFY 2021 ODOT UTP Award	1,637,728							
FFY 2020 Federal Formula Grants	4,499,100							
FY 2021 Local Funds	150,000							
<b>FY 2021 (TBD)</b>	<b>9,958,503</b>							

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE		PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
CATEGORY / PROJECT NAME								
<b>BUS REPLACEMENTS -Continued</b>								
<b>BUS IMPROVEMENT PROGRAM</b>								
2021-2023 Bus Improvement Program		P11390120	0	0	0	14,524,328	0	14,524,328
SFY 2022 ODOT CMAQ Grant	8,387,500							
SFY 2022 ODOT UTP Award	1,637,728							
FFY 2021 Federal Formula Grants	4,499,100							
FY 2022 Local Funds	0							
<b>FY 2022 (TBD)</b>								
SFY 2023 ODOT CMAQ Grant	8,387,500	P11390X30					17,388,017	17,388,017
SFY 2023 ODOT UTP Award	1,637,728							
FFY 2022 Federal Formula Grants	4,499,100							
FY 2023 Local Funds	150,000							
<b>FY 2023 (TBD)</b>	<b>2,713,689</b>							
<b>Sub-Total: Bus Improvement Program</b>			<b>13,639,811</b>	<b>16,135,836</b>	<b>16,245,331</b>	<b>14,524,328</b>	<b>17,388,017</b>	<b>77,933,321</b>
<b>PARATRANSIT IMPROVEMENT PROGRAM</b>								
Paratransit Buses		P12390180	0	1,585,000	1,406,000	3,242,000	0	6,233,000
<b>FY 2019 (TBD)</b>	<b>0</b>							
<b>FY 2020 (TBD)</b>	<b>1,585,000</b>							
<b>FY 2021 (TBD)</b>	<b>1,406,000</b>							
<b>FY 2022 (TBD)</b>	<b>3,242,000</b>							
<b>Sub-Total: Paratransit Improvement Program</b>			<b>0</b>	<b>1,585,000</b>	<b>1,406,000</b>	<b>3,242,000</b>	<b>0</b>	<b>6,233,000</b>
<b>BUS SPARE PARTS PROGRAM</b>								
BRT Capital Spare Parts Program		P16390150	0	500,000	500,000	500,000	0	1,500,000
FFY 2019 Federal Formula Grant	500,000							
FFY 2020 Federal Formula Grant	500,000							
FFY 2021 Federal Formula Grant	500,000							
<b>Sub-Total: Bus Spare Parts Program</b>			<b>0</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>0</b>	<b>1,500,000</b>
<b>ALTERNATIVE FUEL VEHICLES PROGRAM</b>								
Alternative Fuel Conversion Program		P11390X90	400,000	0	0	0	0	400,000
SFY 2019 Environmental Protection Agency	400,000							
<b>Sub-Total: Bus Spare Parts Program</b>			<b>400,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400,000</b>
<b>TOTAL - BUSES</b>			<b>14,039,811</b>	<b>18,220,836</b>	<b>18,151,331</b>	<b>18,266,328</b>	<b>17,388,017</b>	<b>86,066,321</b>

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b><u>FACILITIES IMPROVEMENTS</u></b>							
<b><u>BRIDGE REHABILITATION</u></b>							
Track Bridge Rehab. - Viaduct Bridge Rehab: Phase 1 FFY 2016 Federal Formula Grant 1,447,105 FFY 2020 Federal Formula Grant 7,933,000	P20800460	0	1,447,105	7,933,000	0	0	9,380,105
Track Bridge Inspection Program FY 2020 Local Funds 475,000 FY 2022 Local Funds 475,000	P20800270	0	475,000	0	475,000	0	950,000
Track Bridge Rehab. - West 117th Street FFY 2018 Federal Formula Grant 450,000 FFY 2019 Federal Formula Grant 3,981,000 FY2020 Local Funds 600,000	P20800X90	450,000	4,581,000	0	0	0	5,031,000
Track Bridge Rehabilitation - Canal Road FFY 2020 Federal Formula Grant 215,000 FFY 2021 Federal Formula Grant 2,750,000	P20800X90	0	0	215,000	2,750,000	0	2,965,000
Road Bridge Rehab - E. 116th Street FFY 2018 Federal Formula Grant 660,000 FY 2019 ODOT Municipal Bridge 744,800	P20800740	1,404,800	0	0	0	0	1,404,800
Track Bridge Rehabilitation - Access Rd. Bridge at CRMF FY 2019 Local Funds 80,000 FY 2021(TBD) 300,000 FFY 2021 Federal Formula Grant 4,580,000	P20800X90	80,000	0	300,000	4,580,000	0	4,960,000
Rehab of Track Bridge over Conrail Access Rd FY 2022 Local Funds 275,000 FFY 2022 Federal Formula Grant 3,420,000	P20800X10	0	0	0	275,000	3,420,000	3,695,000
<b>Sub-Total: Bridge Rehabilitation</b>		<b>1,934,800</b>	<b>6,503,105</b>	<b>8,448,000</b>	<b>8,080,000</b>	<b>3,420,000</b>	<b>28,385,905</b>

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b><u>FACILITIES IMPROVEMENTS - Continued</u></b>							
<b><u>FACILITIES IMPROVEMENTS</u></b>							
HVAC System Improvement Program FFY 2020 Federal Formula Grant 400,000 FFY 2021 Federal Formula Grant 1,300,000 FFY 2022 Federal Formula Grant 1,300,000	New	0	0	400,000	1,300,000	1,300,000	3,000,000
Hayden Gas Detection System FFY 2021 Federal Formula Grant 500,000	New	0	0	0	500,000	0	500,000
Hayden-Fire Protection System Upgrades FY 2022 Local Funds 200,000	New	0	0	0	200,000	0	200,000
Pavement Improvement Program FFY 2021 Federal Formula Grant 2,700,000	New	0	0	0	2,700,000	0	2,700,000
Roofing Improvement Program FFY 2022 Federal Formula Grant 3,800,000	New	0	0	0	0	3,800,000	3,800,000
Hayden 60' Lift Replacement FFY 2022 Federal Formula Grant 1,654,000	New	0	0	0	0	1,654,000	1,654,000
<b><u>SYSTEM-WIDE FACILITIES</u></b>							
Tower City - East Portal Concrete Repairs FFY 2014 Federal Formula Grant 400,000 FFY 2019 Federal Formula Grant 4,472,419 FY 2020 (TBD) 1,757,581	P26800170	400,000	6,230,000	0	0	0	6,630,000
State of Good Repair Projects FFY 2018 Federal Formula Grant 1,187,061 FFY 2019 Federal Formula Grant 543,750 FFY 2020 Federal Formula Grant 1,426,206 FFY 2021 Federal Formula Grant 201,287 FFY 2022 Federal Formula Grant 945,002	P32800250	1,187,061	543,750	1,426,206	201,287	945,002	4,303,306
<b>Sub-Total: System-Wide Facilities</b>		<b>1,587,061</b>	<b>6,773,750</b>	<b>1,826,206</b>	<b>4,901,287</b>	<b>7,699,002</b>	<b>22,787,306</b>
<b>TOTAL - FACILITIES IMPROVEMENTS</b>		<b>3,521,861</b>	<b>13,276,855</b>	<b>10,274,206</b>	<b>12,981,287</b>	<b>11,119,002</b>	<b>51,173,211</b>



**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b>OTHER PROJECTS</b>							
<b>OTHER</b>							
Planning Studies (Transportation for Livable Communities)	P49570120	93,750	93,750	93,750	93,750	93,750	468,750
FY 2019 (TBD)	93,750						
FY 2020 (TBD)	93,750						
FY 2021 (TBD)	93,750						
FY 2022 (TBD)	93,750						
FY 2023 (TBD)	93,750						
RTA Development Fund Contingency 2017 - 23 (TBD)	TBD P49990150	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
Unserve Area Expenses	P516701X0	543,750	543,750	543,750	543,750	543,750	2,718,750
FFY2018 NOACA Unserve Area Allocation	543,750						
FFY2019 NOACA Unserve Area Allocation	543,750						
FFY2020 NOACA Unserve Area Allocation	543,750						
FFY2021 NOACA Unserve Area Allocation	543,750						
FFY2022 NOACA Unserve Area Allocation	543,750						
<b>TOTAL - OTHER PROJECTS</b>		<b>2,637,500</b>	<b>2,637,500</b>	<b>2,637,500</b>	<b>2,637,500</b>	<b>2,637,500</b>	<b>13,187,500</b>
<b>PREVENTIVE MAINTENANCE/OPERATING REIMBURSEMENTS</b>							
<b>PREVENTIVE MAINTENANCE/OPERATING REIMBURSEMENTS</b>							
Preventive Maintenance Expenses	P516701X0	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	100,000,000
FFY 2018 Federal Formula Grant	25,000,000						
FFY 2019 Federal Formula Grant	20,000,000						
FFY 2020 Federal Formula Grant	20,000,000						
FFY 2021 Federal Formula Grant	20,000,000						
FFY 2022 Federal Formula Grant	20,000,000						
<b>TOTAL - PREVENTIVE MAINT./OPERATING REIMB.</b>		<b>20,000,000</b>	<b>20,000,000</b>	<b>20,000,000</b>	<b>20,000,000</b>	<b>20,000,000</b>	<b>100,000,000</b>

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b>RAIL PROJECTS</b>							
<b>ELECTRICAL SYSTEM</b>							
OCS Replacement and Upgrade Plan	P21320180	1,302,000	2,000,000	2,000,000	2,000,000	2,000,000	9,302,000
FY 2019 (TBD)	1,302,000						
FFY 2019 Federal Formula Grant	2,000,000						
FFY 2020 Federal Formula Grant	2,000,000						
FFY 2021 Federal Formula Grant	2,000,000						
FFY 2022 Federal Formula Grant	2,000,000						
Substation Improvement Program	P21800390	151,000	3,900,000	3,850,000	3,850,000	0	11,751,000
FY 2019 Local Funds	151,000						
FFY 2019 Federal Formula Grant	3,850,000						
FY 2020 Local Funds	50,000						
FFY 2020 Federal Formula Grant	3,850,000						
FFY 2021 Federal Formula Grant	3,850,000						
<b>Sub-Total: Electrical System</b>		<b>1,453,000</b>	<b>5,900,000</b>	<b>5,850,000</b>	<b>5,850,000</b>	<b>2,000,000</b>	<b>21,053,000</b>
<b>TRAIN CONTROL / SIGNALS</b>							
Signal System Upgrade Program		0	1,125,000	0	1,125,000	1,125,000	3,375,000
FFY 2019 Federal Formula Grant	1,125,000						
FFY 2021 Federal Formula Grant	1,125,000						
FFY 2022 Federal Formula Grant	1,125,000						
<b>Sub-Total: Train Control / Signals</b>		<b>0</b>	<b>1,125,000</b>	<b>0</b>	<b>1,125,000</b>	<b>1,125,000</b>	<b>3,375,000</b>

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b><u>RAIL PROJECTS - Continued</u></b>							
<b><u>TRACK REHABILITATION</u></b>							
Rail Profile Grinding Program FFY 2018 Federal Formula Grant 1,779,719 FFY 2019 Federal Formula Grant 1,489,000	P23320170	1,779,719	1,489,000	0	0	0	3,268,719
Rail Infrastructure Program FFY 2018 Federal Formula Grant 750,000 FFY 2019 Federal Formula Grant 1,000,000 FFY 2020 Federal Formula Grant 1,000,000 FFY 2021 Federal Formula Grant 1,000,000 FFY 2022 Federal Formula Grant 1,000,000	P23320150	750,000	1,000,000	1,000,000	1,000,000	1,000,000	4,750,000
On-Call Rail Engineering Services FFY 2018 Federal Formula Grant 200,000 FFY 2019 Federal Formula Grant 200,000 FFY 2020 Federal Formula Grant 200,000 FFY 2021 Federal Formula Grant 200,000 FFY 2022 Federal Formula Grant 200,000	P23800240	200,000	200,000	200,000	200,000	200,000	1,000,000
LR Retaining Wall - Buckeye/Woodhill - Shaker Sq.: Ph. 2 FFY 2018 Federal Formula Grant 1,410,000 FFY 2019 Federal Formula Grant 1,441,000	P23800590	1,410,000	1,441,000	0	0	0	2,851,000

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b><u>RAIL PROJECTS - Continued</u></b>							
<b><u>TRACK REHABILITATION</u></b>							
Red Line Track W. Reconst. (WestPark Station to Puritas Stat SFY 2019 OTPPP 10,314,000 SFY 2020 OTPPP 6,600,000	P23800X00	10,314,000	6,600,000	0	0	0	16,914,000
Next Track Reconstruction Program (Light Rail Program) FFY 2019 Federal Formula Grant 1,772,868 FFY 2020 Federal Formula Grant 6,782,081 SFY 2021 OTPPP 6,600,000 FFY 2021 Federal Formula Grant 3,600,000 SFY 2022 OTPPP 6,600,000 FFY 2022 Federal Formula Grant 4,862,285 SFY 2023 OTPPP 6,600,000	P23800X80	0	1,772,868	13,382,081	10,200,000	11,462,285	36,817,234
<b>Sub-Total: Track Rehabilitation</b>		<b>14,453,719</b>	<b>12,502,868</b>	<b>14,582,081</b>	<b>11,400,000</b>	<b>12,662,285</b>	<b>65,600,953</b>
<b><u>RAIL STATION REHABILITATION</u></b>							
Warrensville Van Aken Comfort Station FY 2020 Local Funds 555,000	New	0	555,000	0	0	0	555,000
E. 79th Street Station FY 2019 Local Funds 5,000,000	New	5,000,000	0	0	0	0	5,000,000
<b>Sub-Total: Rail Station Rehabilitation</b>		<b>5,000,000</b>	<b>555,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,555,000</b>

**GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY  
2019 - 2023 CAPITAL IMPROVEMENT PLAN  
RTA DEVELOPMENT FUND**

ANTICIPATED FUNDING SOURCE							
CATEGORY / PROJECT NAME	PROJECT NUMBER	2019	2020	2021	2022	2023	TOTALS 2019-2023
<b>RAIL PROJECTS - Continued</b>							
<b>RAIL VEHICLE FLEET</b>							
Rail Capital Spare Parts Program	P16390X00	0	750,000	750,000	750,000	750,000	3,000,000
FFY 2019 Federal Formula Grant	750,000						
FFY 2020 Federal Formula Grant	750,000						
FFY 2021 Federal Formula Grant	750,000						
FFY 2022 Federal Formula Grant	750,000						
Spiker Nipper Machine	P16390X00	0	370,377	0	0	0	370,377
<b>FY 2020 (TBD)</b>	370,377						
<b>Sub-Total: Rail Vehicle Fleet</b>		<b>0</b>	<b>1,120,377</b>	<b>750,000</b>	<b>750,000</b>	<b>750,000</b>	<b>3,370,377</b>
<b>TOTAL - RAIL PROJECTS</b>		<b>20,906,719</b>	<b>21,203,245</b>	<b>21,182,081</b>	<b>19,125,000</b>	<b>16,537,285</b>	<b>98,954,330</b>
<b>TRANSIT CENTERS</b>							
Enhanced ADA Access (Enhancement Item)	P30800240	300,000	300,000	300,000	300,000	300,000	1,500,000
FFY 2018 Federal Formula Grant	300,000						
FFY 2019 Federal Formula Grant	300,000						
FFY 2020 Federal Formula Grant	300,000						
FFY 2021 Federal Formula Grant	300,000						
FFY 2022 Federal Formula Grant	300,000						
<b>TOTAL - TRANSIT CENTERS</b>		<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>1,500,000</b>
<b>TOTAL RTA DEVELOPMENT FUND</b>		<b>64,741,828</b>	<b>75,638,436</b>	<b>72,545,118</b>	<b>73,310,115</b>	<b>67,981,804</b>	<b>354,217,299</b>
<b>TOTAL RTA CAPITAL FUND</b>		<b>3,330,183</b>	<b>2,907,800</b>	<b>3,603,000</b>	<b>3,509,500</b>	<b>3,395,500</b>	<b>16,745,983</b>
<b>TOTAL CAPITAL IMPROVEMENT PLAN</b>		<b>68,072,011</b>	<b>78,546,236</b>	<b>76,148,118</b>	<b>76,819,615</b>	<b>71,377,304</b>	<b>370,963,282</b>

This page intentionally left blank