



Volume Two

# Capital Improvement Plan

City of Scottsdale, Arizona  
Adopted FY 2016/17 Budget



Scottsdale Airport Operations Center

## INSTRUCTIONS FOR NAVIGATING IN ANNUAL BUDGET PDF FILES

- **Bookmarks** for major sections are provided in the navigation pane on the left. Click on the bookmark to jump directly to that section.
- If a “+” sign is at the left of a bookmark, click on the “+” to bring up subheadings.
- All pages are linked to the **Table of Contents**. To jump to a specific page or subsections from the Table of Contents, put the pointer finger on the title or page number within and click the mouse.
- Click the “**Table of Contents**” blue text located at the top right hand corner of any page or click the Table of Contents bookmark on the left to return to the Table of Contents at any time.



FY 2016/17 Adopted Budget – Volume Two  
Capital Improvement Plan  
Table of Contents

<b>Overview</b>	<b>Capital Improvement Plan – Project List - By Division</b>
How to Use this Book ..... 1	Administrative Services .....21
Recurring Capital Maintenance Projects..... 2	C&ED – Airport.....21
Definition of CIP Projects..... 2	C&ED – Planning & Development.....21
CIP Review Process..... 2	C&ED – Tourism & Events .....22
Operational Impacts..... 5	C&ED – Transportation .....22
	C&ED – WestWorld.....23
	City Attorney.....23
	City Court .....23
	City Treasurer.....23
	Community Services .....23
	Public Safety – Fire .....24
	Public Safety – Police.....24
	Public Works .....24
	Water Resources.....25
	<b>Capital Improvement Plan – Project List – By Program</b>
	Community Facilities – Neighborhood &
	Community .....28
<b>Funding</b>	
Source of Funds ..... 7	
Use of Funds ..... 10	
Financial Summary & Five-Year Forecast ..... 14	
<b>Project Lists and Operating Impacts</b>	
Capital Improvement Plan – Project List –	
Alphabetical..... 15	

## Table of Contents

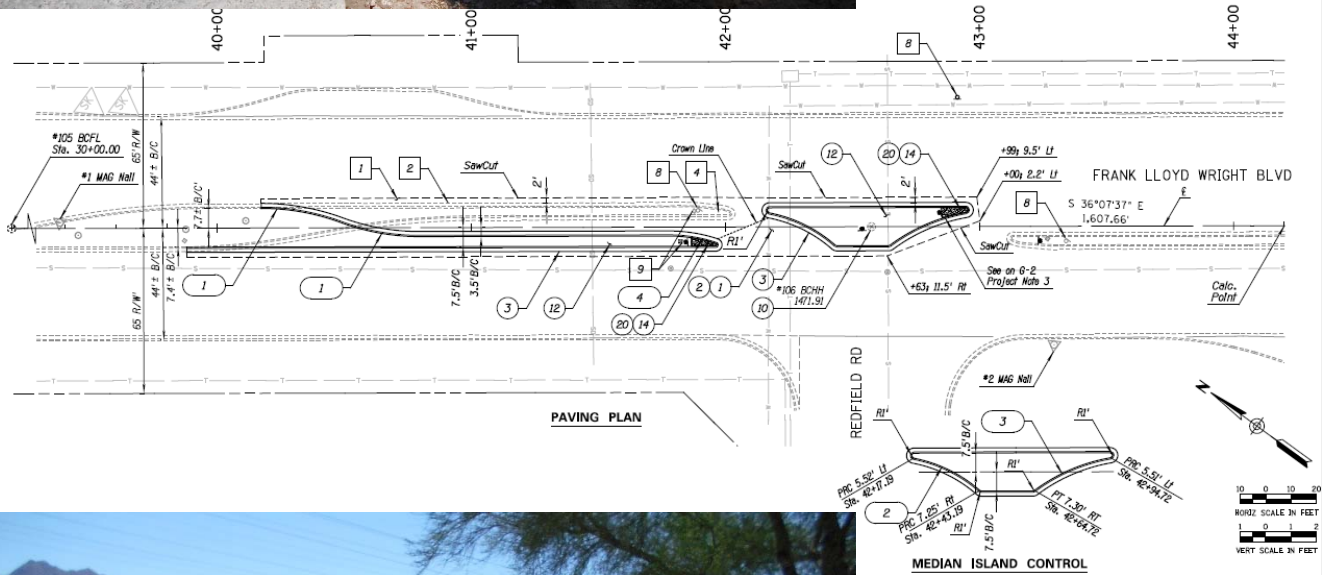
Community Facilities – Parks/Park Improvements.....	28	Water Management – Wastewater Improvements ..	32
Drainage/Flood Control – Drainage/Flood Control.....	28	Water Management – Water Improvements.....	32
Preservation – Preservation/Preservation Improvements.....	28	Estimated Operating Impacts (alphabetical order) ..	34
Public Safety – Fire Protection.....	29	<b>Project Descriptions, Locations, Project Types, Funding Sources &amp; Operating Impacts</b>	
Public Safety – Police.....	29	Community Facilities .....	39
Service Facilities – Municipal Facilities/Improvements .....	29	Drainage/Flood Control .....	49
Service Facilities – Technology Improvements....	29	Preservation .....	55
Transportation – Aviation/Aviation Improvements	30	Public Safety .....	61
Transportation – Streets/Street Improvements ....	30	Service Facilities .....	71
Transportation – Traffic/Traffic Reduction.....	31	Transportation .....	85
Transportation – Transit/Transit Improvements ...	31	Water Management.....	113

---

---



# Bell Road @ 93rd Street, Acceleration Lane



## The City of Scottsdale's FY 2016/17 budget is comprised of two Volumes:

### Volume Two – Capital Improvement Plan (CIP)

**Budget** which authorizes and provides the basis for control of expenditures for the acquisition of significant city assets and construction of all capital facilities. A five-year Capital Improvement Plan is developed and updated annually, including anticipated funding sources. Under state law, budget appropriations lapse at the end of the fiscal year. As part of the annual budget development process the city must re-budget the appropriations until the project is complete and capitalized.

The CIP is prioritized based on City Council's mission and broad goals, the city's General Plan, Citizen Boards and Commissions, the comprehensive financial policies, including debt and capital management policies, long range financial forecasts and growth and development assumptions.

The **Overview** section of Volume Two describes recurring capital maintenance projects in further detail, the guidelines used to determine whether a project is a capital project, and the city's capital project review process, which includes review teams and prioritization criteria. The CIP prioritization criteria describe in detail the measures used by the city's two separate CIP teams (Construction and Technology) to rate the various proposed construction related and technology related capital projects. The CIP review process also covers senior management's involvement. The overview section concludes with a summary of operating impacts of capital projects.

The **Funding** section is a summary of the various sources of funds and how those funds are used to pay for CIP projects. The funding section concludes with the Financial Summary and Five Year Financial Forecast.

The **Project Lists** and **Operating Impacts** section includes four lists:

- Alphabetical by Project Name – this list summarizes all capital projects in alphabetical order.
- By Division – this list summarizes all capital projects by city division.

- By Program - this list summarizes all capital projects by major program.
- Estimated Operating Impacts – This list summarizes the projected operating costs associated with capital projects in alphabetical order.

The first three project lists reflect each project's adopted FY 2016/17 budget with the forecasted funding through FY 2020/21. The forecasted funding, which includes FY 2017/18 through FY 2020/21 was not adopted by City Council as part of the FY 2016/17 budget. This information serves as part of the city's long-term capital plan process and will be revisited and updated in future budget reviews. The Estimated Operating Impacts list includes a four-year summary of the projected operating costs associated with capital projects. The operating impacts for projects completed prior to or during FY 2016/17 are calculated and included in the Adopted Operating Budget.

The remaining sections of Volume Two include detailed information arranged by major program on each of the city's capital projects, including Community Facilities, Drainage/Flood Control, Preservation, Public Safety, Service Facilities, Transportation and Water Management. The detailed information includes location, project description, funding source(s) and project number, if applicable.

**Volume One – Operating Budget** provides fund summaries and five-year financial plans for each of the city's funds. This volume also provides detailed information on each of the city's divisions and departments, including descriptions, prior year highlights, priorities, staffing, and a summary of the operating budgets by expenditure category and the applicable funding sources.

## Recurring Capital Maintenance Projects

Recurring capital maintenance projects reflect the recurring expenditure needs of the city. These projects include budget appropriation for one fiscal year, and are reviewed by the Budget staff as part of the budget development process each year. The desired goal is to close out the projects within one year. The projects may be carried forward into the next fiscal year when their completion requires more time than originally anticipated. The recurring capital maintenance projects are assigned a project number with the prefix "Y".

### Definition of CIP Projects

The following guidelines determine what a CIP project is:

- Relatively high monetary value (at least \$25,000)

- Long life (at least five years)

- Results in creation of a fixed asset, or the revitalization of a fixed asset

Included within the above definition of a CIP project are the following items:

- Construction of new facilities

- Remodeling or expansion of existing facilities

- Purchase, improvement and/or development of land

- Operating equipment and machinery for new or expanded facilities

- Planning and engineering costs related to specific capital improvements

- Street construction, reconstruction, resurfacing or renovation

In general, automotive and other rolling stock, personal computers, and other equipment not attached to or part of new facilities are not included as a CIP project. The exception to this is when the aggregate dollar amount of all the items are of a considerable value that they are grouped together and considered as a single capital project.

## CIP Review Process

The City of Scottsdale uses two cross-divisional CIP Review Teams, one for review of construction related projects and the other for review of technology related projects. The ***Construction Review Team*** consists of individuals from a variety of divisions and professional disciplines to review project submissions and ensure that:

- Projects are scoped properly (a building has ADA access, includes telephones, computers, etc.)

- Infrastructure components are coordinated (a waterline is installed at the same time as a roadway improvement at a specific location)

- Long-term operating impacts are included in estimates (staffing, utility and maintenance costs are considered)

- Timeframes for construction activity and cash flow requirements are realistic

- Projects are coordinated geographically (i.e., not more than one north/south major thoroughfare is restricted at a time), and

- Project costs are reviewed to determine the adequacy of the budget and appropriate funding sources

The ***Technology Review Team*** includes individuals from a variety of divisions to review technology project submissions and ensure that:

- Projects meet city's current hardware, software and security standards

- If technology will be accessed from remote locations, what network bandwidth requirements are needed to support the application

- Long-term operating impacts are included in estimates (training, maintenance and support)

- Who is responsible for funding ongoing maintenance of hardware, operating system, application and database, if applicable

- Who is responsible for day-to-day support

- Does the system require after hours technical support

- Includes funding to cover ongoing monthly communication costs associated with the system, if applicable

Backups and data retention have been considered  
 Disaster recovery and security considerations have been taken into account

While these illustrations are not exhaustive they provide excellent examples of the value added through project review by cross-divisional teams.

Each division is required to submit new funding requests to the City Treasurer's Office, who then compiles the information for the applicable CIP review team. If the review teams have questions concerning a request, the divisions are asked to clarify the issue to assist the review team in prioritizing the projects against all city needs.

After this thorough review process, the CIP review teams prioritize the projects based on City Council's broad goals, division priorities, anticipated funding sources, and the International City/County Management Association (ICMA) Project Prioritization Matrix. The ICMA Prioritization Criteria were obtained from *Capital Projects: New Strategies for Planning, Management, and Finance*, Copyright 1989, pp 85-87, and adjusted for the City of Scottsdale.

### The seven prioritization criteria used by Scottsdale for construction related projects are:

**1. Annual Recurring Costs** - The expected change in operation and maintenance costs. Divisions provide annual estimates of the additional costs or reductions in the operating budget resulting from the new project. Also to be considered are changes in revenues that may be affected by a project. For example, the loss in property taxes incurred when private land is used for a capital project.

**2. Health and Safety Effects** - This criterion includes health-related environmental impacts like reductions/increases in traffic accidents, injuries, deaths, sickness due to poor water quality, health hazards due to sewer problems, etc.

**3. Community Benefits** - Economic impacts such as property values, the future tax base, added jobs, income to citizens, changes in business income and the stabilization (or revitalization) of neighborhoods. Such impacts may apply more to capital projects related to growth and expansion than to infrastructure maintenance,

although deteriorating structures can adversely affect business. This is also a catch-all criterion for other significant quality-of-life-related impacts such as community appearance, noise, air and water pollution effects, households displaced, damage to homes, effect on commuters, changes in recreational opportunities, etc. This criterion is also an assessment of the extent of public support and interest group advocacy and/or opposition.

**4. Distributional Effects** - Estimates of the number and type of persons likely to be affected by the project and nature of the impact; for instance, explicit examination of project impact on various geographical areas; on low-moderate income areas; and on specific target groups. Equity issues are central here - who pays, who benefits, and the social goals of the jurisdiction.

**5. Project Feasibility** - This element is a measure of special implementation problems (i.e., physical or engineering restraints) and compatibility with the General Plan. Project feasibility also includes the amount of uncertainty and risk. For each proposal, each of the criteria will have associated with it some degree of uncertainty as to cost estimates, effect on service quality or impact of new procedures. When substantial uncertainties exist regarding any of the evaluation criteria for any proposal, the city should consider estimating, at least in broad terms, the amount of uncertainty, probability of occurrence and the magnitude of the likely negative consequences. Few cities generate such information but even "educated guesses" are useful here. Another component of this criterion is the possible beneficial/adverse effects on relationships with other jurisdictions or quasi-governmental agencies in the area. Such effects, i.e., waste disposal via landfills in other jurisdictions, are likely to require special regional coordination and could impair the proposal's attractiveness.

**6. Implication of Deferring the Project** - Deferring capital projects is tempting for hard-pressed governments but an estimate of the possible effects, such as higher future costs and inconvenience to the public, provides valuable guidance in a proposal assessment.

**7. Mayor and City Council's Broad Goals** - If a capital project directly addresses the Mayor and City Council's broad goals, the relative attractiveness of that project increases.



## The six prioritization criteria used by Scottsdale for technology related projects are:

**1. Annual Recurring Costs** - This element reflects other costs relative to a proposed project, including operation and maintenance (O&M) costs, licensing costs and potential revenues generated by the completed project. If a project has potentially high O&M and licensing costs, then a lower rating should be assigned. If a project has the potential of generating revenues, then a higher rating should be assigned. Overall, the score for this element should reflect a compilation of all three factors.

**2. Technological Infrastructure** - This criterion refers to projects required to maintain the technology infrastructure for essential city operations. This would include such items as networks and servers, telephone PBX, extension or improvements to the Wide Area Network for remote locations, etc. Projects that include elements related to these items would be scored higher than projects that don't support the integrity of the technology infrastructure.

**3. Community Benefits** - This element considers the impacts that a project may have on service and the benefits the project may offer to citizens or staff members. This criterion should be viewed in terms of the numbers of citizens or staff members that may benefit from the project and how a service may be enhanced by the project. This element deals with the extent of influence of a proposed project. The impacts and benefits may be spread over the community at-large, to a specific geographic area, to the entire city staff or to specific city staff at specific locations.

**4. Project Feasibility** - This element is a measure of special implementation problems (i.e. physical and engineering restraints), and compatibility with the city's overall Technology Plan. A project would be considered for a higher rating score if it has few restraints to accomplish it and is also compatible with the overall Technology Plan. This element measures the success potential of a proposed project. Rating scores should be awarded based on the accuracy of information given by the proposing division, the detail of cost estimates and the potential of the project going awry due to its very nature. Lower rating scores will be assigned for projects that, basically, have insufficient information to allow a "good" review of the project for prioritization. Rating

scores should also be determined based on the possible beneficial or adverse effects on a proposed project due to relationships with other jurisdictions or quasi-governmental agencies in the area. Such effects may require special regional coordination that could directly impact the success or scheduling of a project. The identification of such impacts may result in lower rating scores until such issues are resolved.

**5. Implication of Deferring the Project** - This element accounts for the downside risk incurred for deferring a project, such as higher future costs, loss of contributions, continued inconvenience to the public and staff, possible constraints to network capacity, deterioration of the city's technology infrastructure or legal liability. In this evaluation, increased implications for delaying a project translates into a higher rating score.

Projects that address the limitations of a system or software package that may render a system unusable if corrective measures are not taken would score high for this element. In addition, a higher score might be in order if future lower costs associated with technology would come into the equation.

**6. Mayor and City Council's Broad Goals** - If a capital project directly addresses the Mayor and City Council's broad goals, the relative attractiveness of that project increases.

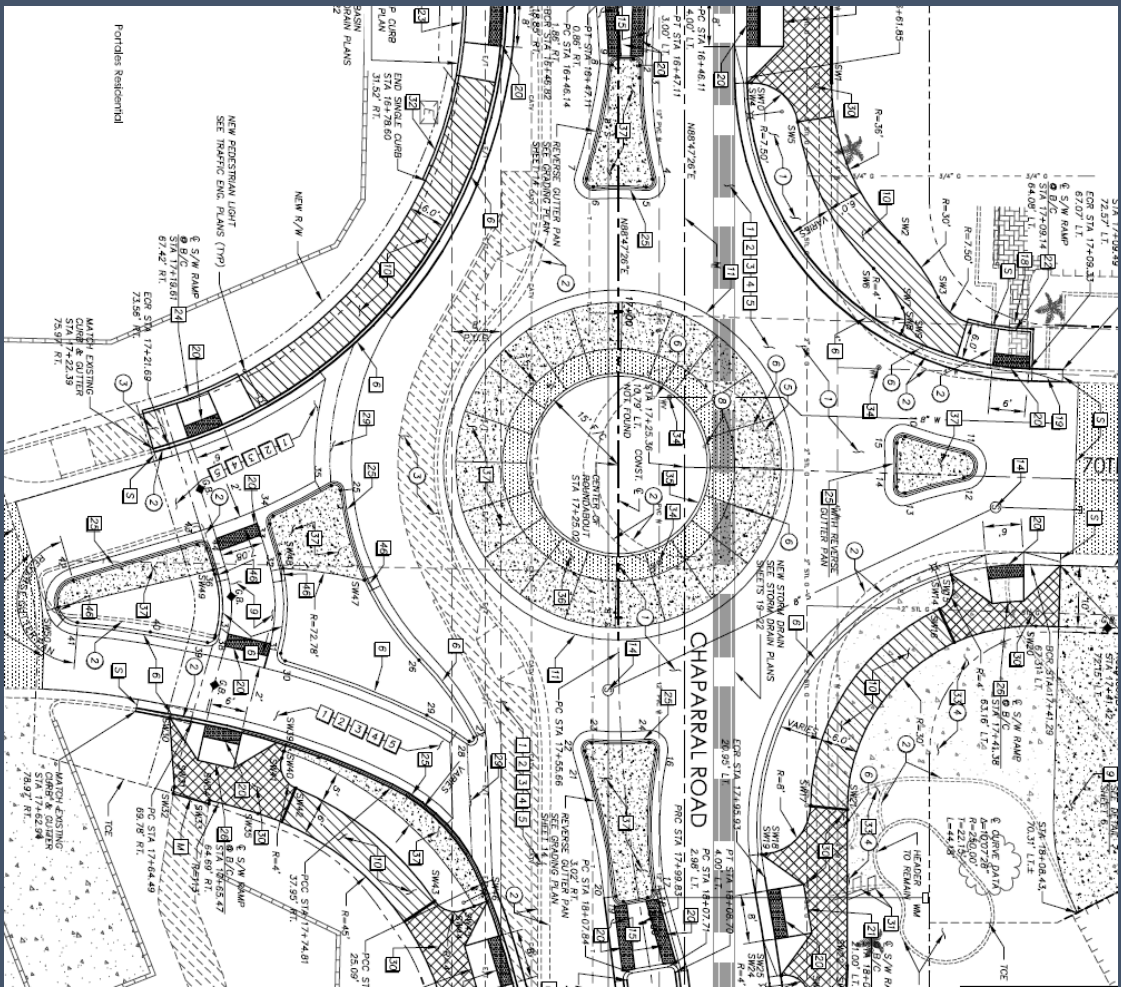
The Construction Review Team and the Technology Review Team forward their prioritization results to the CIP Advisory Team for the next phase of review. This group includes senior management and key staff members who provide an enterprise-wide view for synergy and priority while balancing project requests against known City Council objectives. After their review is completed, members of the CIP Advisory Team present the recommended five-year CIP to the City Manager and City Treasurer. Both review the recommended five-year CIP, applying a policy perspective while considering citywide needs. The full City Council reviews and recommends the five-year CIP plan during budget work study sessions and public hearings prior to budget adoption.

## Operational Impacts

The operating impacts of capital projects are analyzed and taken into consideration during the extensive CIP prioritization process. Estimated new revenues and/or operational expenditure savings associated with capital projects are also taken into consideration (net operating costs) during the capital project review. As capital improvement projects are completed, the operating costs of these projects have been identified, prioritized, and justified as part of divisional Operating Budget process. Divisional staff plan and budget for the significant start-up costs, as well as the operation and maintenance of new facilities. The Operating Budget authorizes and provides the basis for control of operating expenditures for both internal and citizen services, including operating and maintaining new capital facilities. The Operating Budget appropriations lapse at the end of the fiscal year. The Operating Budget is funded with recurring annual revenues such as taxes, licenses, fines, user fees and interest income.



FY 2016/17 Adopted Budget



Chaparral Road Traffic Calming 69<sup>th</sup> to Scottsdale



The Capital Improvement Plan (CIP) uses funding from prior year carryovers. Prior year carryovers are “blended” funding from various funding sources. For FY 2016/17 – 2020/21 the funding added to the prior year carryovers includes the Preservation General Obligation (G. O.) Bonds and Municipal Property Corporation (MPC) Bonds. These provide the bond-funded portion of the plan, which is approximately 26 percent of the CIP funding in FY 2016/17 – 2020/21. Approximately 36 percent of Scottsdale’s FY 2016/17 – 2020/21 CIP is funded with Enterprise and Preservation funding, and approximately 38 percent is funded by “pay-as-you-go” revenues, which include dedicated sales tax revenues and contributions from fund balance transfers. The three percentages listed indicate that the FY 2016/17 -2020/21 CIP is in compliance with financial policy number 25, which states that pay-as-you-go Capital Improvement Plan financing should account for a minimum of 25 percent of all capital improvement projects, excluding Preservation and Enterprise for each five-year planning period. Pay-as-you-go financing is defined as all sources of revenue other than city debt issuance. The pie chart at the end of this section represents funding source percentages for FY 2016/17 – 2020/21.

Funding sources for the CIP are presented on a cash flow basis. These revenue sources are presented in the period that the revenue is expected to be collected. Funding sources include estimated balances on hand at the beginning of the period as well as revenue expected to be received during the period or future periods, i.e. bond issuances. As a result of presenting revenue on the cash basis, pay-as-you-go funding sources do not equal budgeted expenditures in each period, sometimes creating a fund deficit for project expenditures in subsequent years.

All potential capital funding resources are evaluated to ensure equity of funding for the CIP. Our measure of whether equity is achieved is if the beneficiaries of a project or service pay for it. For example, general tax revenues and/or G.O. Bonds appropriately pay for projects that benefit the general public as a whole. User fees, development fees, and/or contributions pay for projects that benefit specific users. Other factors considered when funding the capital plan are whether the financing method provides funding when needed and the financial costs associated with the funding source. The following summarizes the funding sources for the CIP.

## General Obligation (G.O.) Bonds and Municipal Property Corporation (MPC) Bonds

**General Obligation (G.O.) Bonds** are bonds secured by the full faith and credit of the issuer. G.O. Bonds issued by local units of government are secured by a pledge of the issuer’s property taxing power (secondary portion). They are usually issued to pay for general capital improvements such as parks and roads.

**General Obligation (G.O.) Preservation** are bonds payable either (1) solely from and secured by a 0.2 percent sales tax approved by city voters in 1995 and issued for the purpose of acquiring land for the McDowell Sonoran Preserve; or (2) solely from and secured by a 0.15 percent sales tax approved by city voters in 2004 and issued for the purpose of acquiring land and preserve-related construction, such as proposed trailheads for the McDowell Sonoran Preserve. If the preservation sales tax is insufficient to service the debt, secondary property tax would be utilized for debt payments.

**Municipal Property Corporation (MPC) Bonds Water and/or Water Reclamation** represents bonds issued by the Municipal Property Corporation (MPC), a non-profit corporation established to issue bonds to fund city capital improvements. The debt incurred by the corporation is a city obligation, but does not require voter approval. Pledged revenue streams, in this instance water and water reclamation rates, finance the repayment of MPC debt.

**Municipal Property Corporation (MPC) Bonds Other** are issued by the Municipal Property Corporation, a non-profit corporation established to issue bonds to fund city capital improvements. The debt incurred by the corporation is a city obligation, but does not require voter approval. Pledged revenue streams, in this instance excise taxes, finance the repayment of MPC debt.

## Enterprise Funds

**Water & Water Reclamation Rates** are utility bill revenues received from the sale of domestic water and the fees collected for the disposal of sanitary sewer waste from customers within the city. Water & water reclamation operating revenues in excess of operating expenditures are transferred to the CIP to fund water and water reclamation capital improvement projects.

**Aviation Fees** represent fee revenues received from users of the city’s municipal airport and related facilities.

Fees paid include transient landing fees, tie down fees, hangar fees, etc.

**Solid Waste Rates** represent utility bill revenues received for the collection and disposal of solid waste from residential and commercial customers.

### Internal Service Funds

**Internal Service Funds** represent revenues received for services provided to internal customers.

**Fleet Fund** represents revenues from the city's fleet rates and per financial policy is restricted to use for improvements to facilities providing maintenance services to the city's rolling stock, the replacement of rolling stock, and the administration of the program.

### Transportation Funds

**Transportation Privilege (Sales) Tax** represents revenues received from the 1989 voter approved 0.2 percent sales tax on local retail and other sales. Per the city's financial policy number 27, no more than fifty percent of the privilege (sales) tax revenue for transportation improvements will be allocated to transportation improvement operating expenses.

**Prop 400 Regional Transportation (Sales) Tax** represents revenues received from the 2004 voter approved 20-year extension of a half-cent transportation sales tax in Maricopa County that was first approved in 1985 to fund freeway construction (Proposition 400).

### Preserve

**Preservation Privilege (Sales) Tax Fund** represents revenues received from the 1995 voter approved 0.2 percent sales tax on local retail and other sales and is dedicated to the purpose of acquiring land for the McDowell Sonoran Preserve and revenues received from the 2004 voter approved 0.15 percent sales tax on local retail and other sales and is dedicated to purpose of acquiring land and construction of essential preserve related necessities such as proposed trailheads for the McDowell Sonoran Preserve.

### Tourism Development

**Tourism Development Funds** represents revenues received from the voter approved transient lodging (bed) tax of 5 percent on hotel and motel room rentals in addition to sales tax. Tourism development revenue is

transferred to the CIP when City Council approves using it as a funding source for specific capital projects.

### Other

**Interest Earnings** represents interest earnings on cash balances on hand in the various funds under the Capital Improvement Program.

**Other Contributions** represent amounts paid by other organizations for capital projects including developers, the Scottsdale Charros and the San Francisco Giants.

**Intergovernmental** represents amounts paid by other organizations for capital projects through intergovernmental agreements (IGAs), and include the Maricopa County Flood Control District (MCFCD) and the Salt River Pima-Maricopa Indian Community (SRPMIC).

**Grants** represent revenues received from federal or state sources. Most grants require a matching funding source with the percentage of the match dependant on grant requirements. The funding is restricted in use to the improvements requested and approved in the grant application.

**Miscellaneous** funding represents revenues from several sources (groundwater treatment, reclaimed water distribution, and in-lieu fees, etc.) that are aggregated for reporting purposes.

**Special Programs** funding represents revenues from dedicated funding sources and donations earmarked for specific purposes (i.e., Racketeering Influenced Corrupt Organization (RICO), Court Enhancement Fund (CEF)).

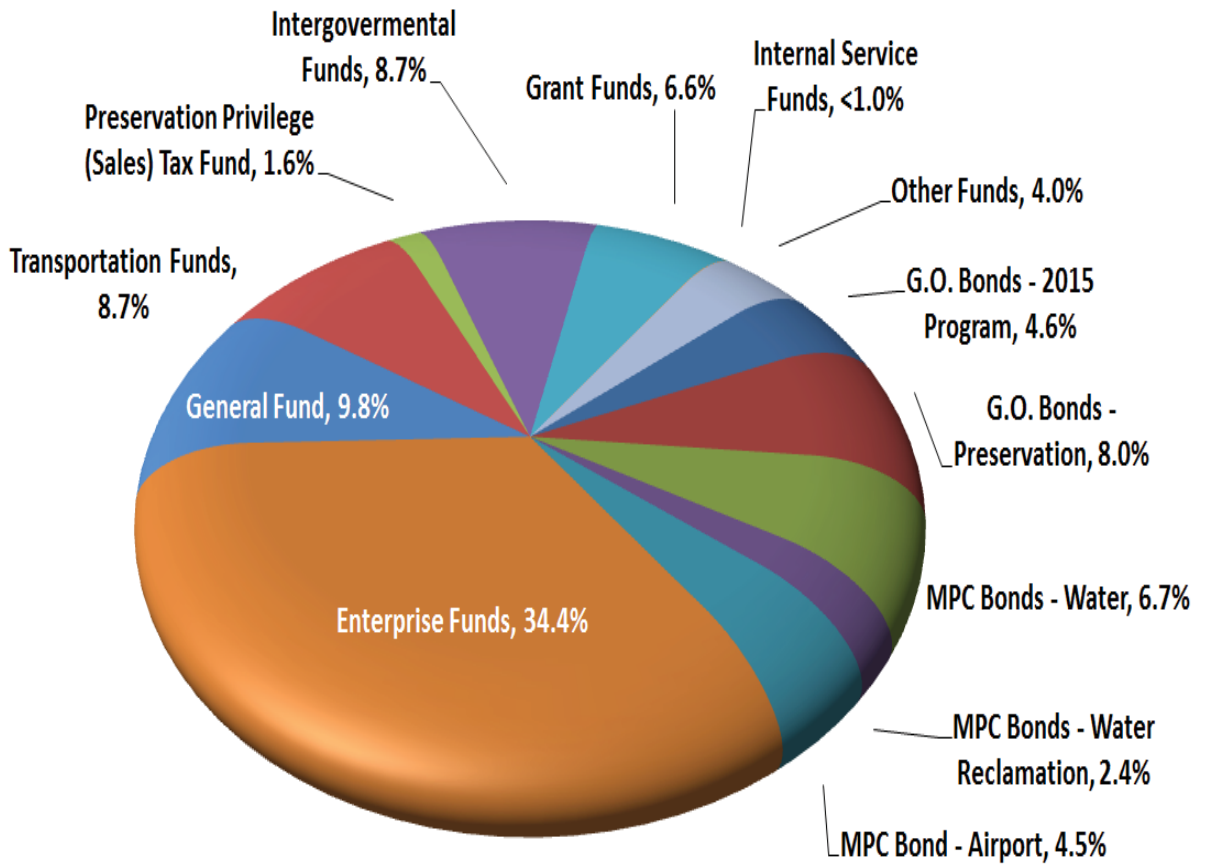
### General Fund

**General Fund** represents the transfer of cash from the General Fund to fund the "pay-as-you-go" (PAYGO) contributions from general revenues for capital projects that do not have a dedicated funding source. The General Fund transfer of cash to the CIP is (1) considered and approved by the City Council each fiscal year, (2) complies with the city's financial policy number 17 that states it will be at a minimum of 25 percent of construction privilege (sales) tax revenues plus 100 percent of net interest income in excess of \$1.0 million and (3) beginning FY 2016/17, meets City Council direction to transfer the amount of the General Fund privilege (sales) tax collected on food for home consumption to the CIP phased in over three years.

Prior Year Carryovers

*Prior year carryovers* are committed funds from prior years that are re-budgeted until they are expended, uncommitted or until the projects are completed.

**FY 2016/17 Adopted Capital Improvement Plan  
Source of Funds (FY 2016/17 - 2020/21)  
Percent of Totals**



The Capital Improvement Plan (CIP) is comprised of seven major programs:

- Community Facilities
- Drainage /Flood Control
- Preservation
- Public Safety
- Service Facilities
- Transportation
- Water Management

The Use of Funds pie chart represents the percentages for each major program.

Expenditures are presented on a budget basis rather than a cash flow basis. Governmental budgeting procedures require adequate budget to pay for the entire contract to be available and appropriated in the period in which a contract is entered into by the city. However, actual cash flows (expenditures) under the contract generally take place over more than one year and match cash flow funding receipts.

The following summarizes the seven major programs that comprise the total Capital Improvement Plan.

**Community Facilities** programs focus on enhancing and protecting a diverse, family-oriented community where neighborhoods are safe and well maintained by providing neighborhood recreation facilities, parks and libraries. These recreational needs are met by providing parks, park improvements, multiuse paths, neighborhood enhancements, youth sports lighting, aquatic centers, library facilities and senior centers. Approximately 2.3 percent of the CIP has been identified to address the needs of this program.

**Drainage/Flood Control** focuses on protecting a diverse, family-oriented community where neighborhoods are safe and well maintained by preventing property damage from flooding. This program achieves these goals through flood plain mapping, meeting regulatory requirements, and identifying and correcting hazards to reduce future flood damage potential. This is accomplished through the use of detention basins, culvert and channel projects, and a program of neighborhood drainage improvements. Approximately 2.9 percent of the CIP has been identified to address the drainage and flood control needs of the city.

**Preservation** focuses on preserving the character and environment of Scottsdale. This goal is met by land acquisition activities for the McDowell Sonoran Preserve for the purpose of maintaining scenic views, preserving native plants and wildlife, and providing public access to the McDowell Mountains and Sonoran Desert. The 1998 election expanded the recommended study boundary from the original 12,876 acres to 34,400 acres. The 2004 election provided an additional revenue stream (0.15 percent sales tax rate increase) as well as the bonding capacity (\$500.0 million) that continues to provide authority to carry on preservation efforts. Approximately 28.3 percent of the CIP has been identified to address this program.

**Public Safety** focuses on enhancing and protecting a diverse, family-oriented community where neighborhoods are safe. This goal is met by providing fire and police stations, training facilities and automation and communication systems related to fire and police operations. Approximately 3.2 percent of the CIP has been identified to address the public safety needs of the city.

**Service Facilities** programs focus on coordinating land use and infrastructure planning within the context of financial demands and available resources. These programs achieve this goal through the renovation of current facilities and technology needs necessary for the efficient and effective operations of the city. Approximately 2.7 percent of the CIP has been identified to address this program.

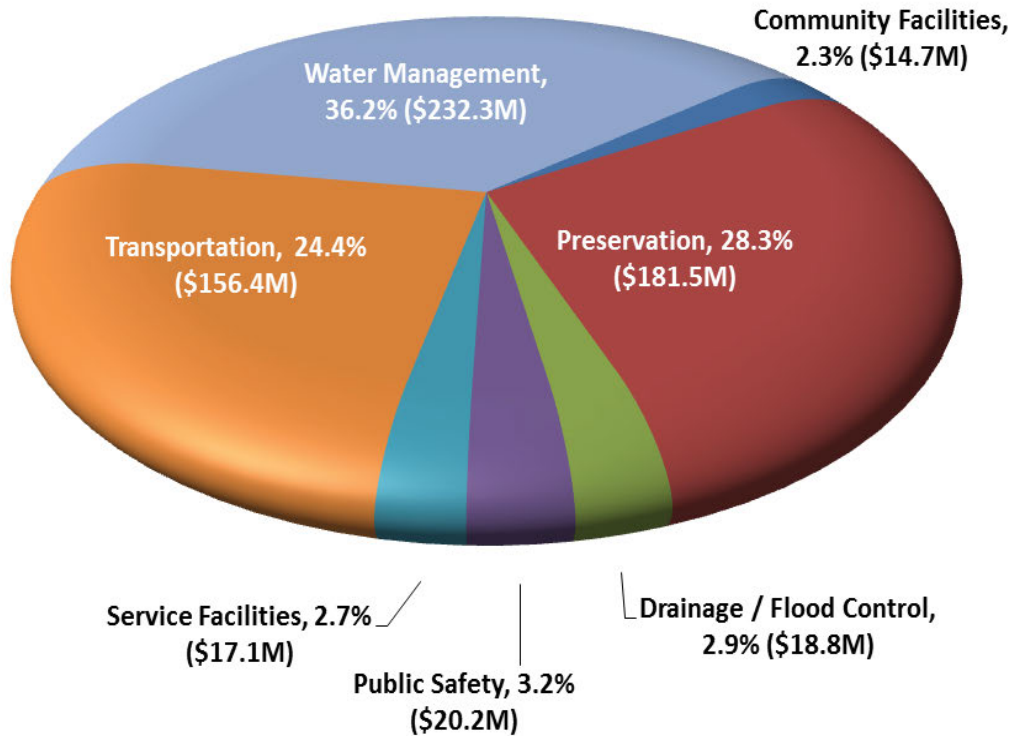
**Transportation** programs focus on providing for the safe, efficient, and affordable movement of people and goods. This program meets this goal by attempting to offer real transportation choices in a way that meets the needs of the community. In 1989 voters authorized a 0.2 percent privilege tax to fund transportation improvements. In 2004 voters approved a 20-year extension of a half-cent transportation sales tax in Maricopa County that was first approved in 1985 to fund freeway construction. This program looks for the best use of these funding sources and addresses the multi-modal concept. Approximately 24.4 percent of the CIP has been identified to address the transportation needs of the city.



**Water Management** focuses on coordinating land use and infrastructure planning within the context of financial demands and available resources. This program achieves this goal by delivering safe, reliable water and providing wastewater services. This program also reflects

the city's commitment to federal and state regulations. Approximately 36.2 percent of the CIP has been identified to address the water and water reclamation needs of the city.

**FY 2016/17 Adopted Capital Improvement Plan  
Budgeted Program Expenditures  
Percent of Total - \$641,035,100\***



\*Excludes Capital and Grant Contingency of \$18.4M

**Capital Improvement Plan - Use of Funds**  
In Thousands of Dollars

Program	2016/17	2017/18	2018/19	2019/20	2020/21
Community Facilities	14,712.4	20,666.2	1,662.4	202.2	202.2
Preservation	181,463.2	3,880.0	1,380.0	380.0	380.0
Drainage / Flood Control	18,794.0	1,323.0	1,787.0	28,560.4	75.0
Public Safety	20,231.3	3,043.8	2,038.6	1,677.8	1,672.4
Service Facilities	17,140.7	2,779.3	4,263.0	7,104.6	3,732.2
Transportation	156,385.4	30,300.5	12,419.1	11,518.9	9,300.0
Water Management	232,307.9	36,533.9	27,438.0	21,187.8	22,177.5
<b>Total Program Expenditure Budget<sup>(a)</sup></b>	<b>641,035.1</b>	<b>98,526.7</b>	<b>50,988.1</b>	<b>70,631.7</b>	<b>37,539.3</b>
<b>Prior Year Unexpended<sup>(b)</sup></b>		<b>389,988.1</b>	<b>350,601.4</b>	<b>327,695.5</b>	<b>327,020.2</b>
<b>Unexpended at Year End (Re-budgets)<sup>(c)</sup></b>	<b>(389,988.1)</b>	<b>(350,601.4)</b>	<b>(327,695.5)</b>	<b>(327,020.2)</b>	<b>(302,829.6)</b>
<b>Transfer out to CIP Water and Water Reclamation Funds<sup>(d)</sup></b>	<b>900.0</b>	<b>900.0</b>	<b>900.0</b>	<b>900.0</b>	<b>900.0</b>
<b>Transfer out to Debt Service<sup>(e)</sup></b>	<b>15,595.3</b>	<b>15,720.1</b>	<b>15,626.0</b>	<b>15,748.8</b>	<b>15,782.1</b>
<b>Total Use of Funds</b>	<b>267,542.2</b>	<b>154,533.6</b>	<b>90,419.9</b>	<b>87,955.8</b>	<b>78,412.0</b>

(a) Excludes Capital and Grant Contingency of \$18.4 million in FY 2016/17 and \$9.5 million annually in subsequent years.

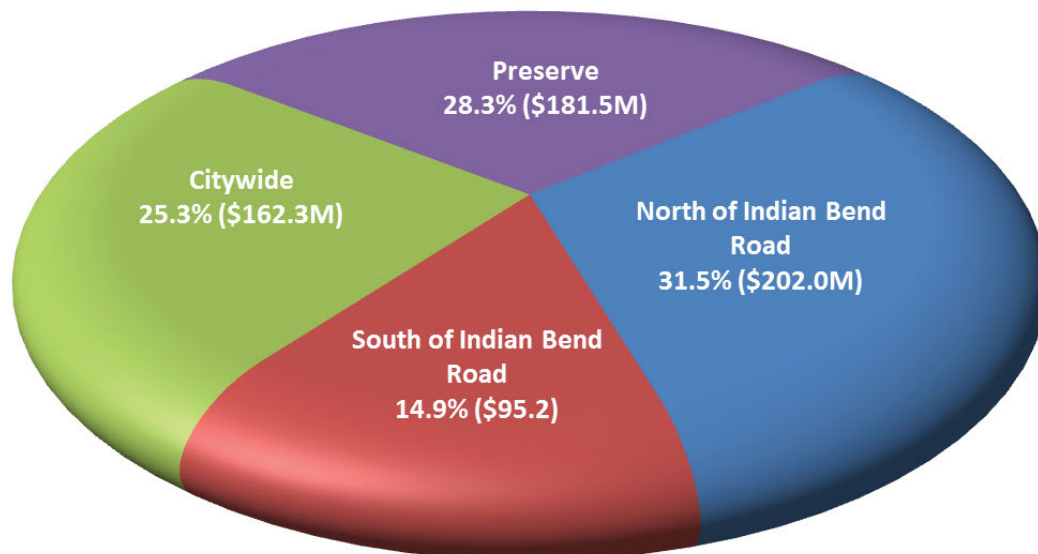
(b) Prior year unexpended estimates are based on annual cashflow assumptions.

(c) Unexpended at year end (re-budgets) estimates are based on annual cashflow assumptions.

(d) Reimbursement to CIP Water and Water Reclamation Funds.

(e) Includes payment of debt service costs of bonds that were issued for growth CIP projects that were funded with development fee revenue.

**FY 2016/17 Adopted Capital Improvement Plan**  
**Budgeted Program Expenditure**  
**by Geographic Boundary**  
**Percent of Total - \$641,035,100\***



\*Excludes Capital and Grant Contingency of \$18.4M

<b>Fund</b>	<b>FY 2016/17 Estimated Expenditures by Fund (millions)</b>
Water & Water Reclamation	77.2
Preservation	53.9
Transportation	55.2
General Government	29.9
Aviation	29.6
RWDS	2.5
Tourism Fund	1.5
Various	1.1
	<b>251.0</b>

### **FY 2016/17 Highlights of the Capital Improvement Program**

Spending is anticipated at approximately \$251.0 million for capital improvements in the fiscal year, including:

- Complete the design and begin construction of the Aquatics Chemical System Replacement
- Complete the design and begin the construction of Fire Stations 605, 613 and 616
- Purchase the land and begin design of Fire Station 603
- Begin building flood control and stormwater management improvements for the Granite Reef Wash Corridor between Thomas and McKellips roads
- Continue designing and building the extension of Raintree Drive from Scottsdale to Hayden Roads
- Complete the design and construct the Mustang Transit Passenger Facility along 90<sup>th</sup> Street south of Shea Boulevard
- Continue the pavement rehabilitation as part of Bond 2015
- Purchase additional Preserve land
- Complete the design and begin building the Airport Terminal Area Redevelopment project
- Continue improving the Reclaimed Water Distribution System (RWDS) pipeline pump stations and reservoirs
- Complete the design and begin construction of the Frank Lloyd Wright 24-inch Transmission Main and Booster Station 83B modifications from the vicinity of Loop 101 and Bell Road to Shea Boulevard
- Complete the design and begin the construction of the Thomas Groundwater Treatment Facility to treat a side stream of product water discharged from the adjacent Central Groundwater Treatment Facility (CGTF)

# Capital Improvement Plan Financial Summary & Five Year Forecast

	Actual 2014/15	Adopted 2015/16	Forecast 2015/16	Adopted 2016/17	Forecast 2017/18	Forecast 2018/19	Forecast 2019/20	Forecast 2020/21
<b>Beginning Fund Balance <sup>(a)</sup></b>	<b>172,714.2</b>	<b>172,123.8</b>	<b>202,305.6</b>	<b>152,472.5</b>	<b>89,104.2</b>	<b>116,306.9</b>	<b>100,683.7</b>	<b>95,829.3</b>
<b>Revenues</b>								
<b>Bonds/Contracts</b>								
General Obligation Bond 2015 Program	-	-	-	-	28,850.0	-	-	-
General Obligation Preserve	-	100,000.0	-	50,000.0	-	-	-	-
Municipal Properties Corporation	27,885.0	9,600.0	-	-	-	-	-	-
Municipal Properties Corporation-Water	20,000.0	-	-	-	42,100.0	-	-	-
Municipal Properties Corporation-Water Reclamation	-	5,800.0	-	-	15,000.0	-	-	-
Municipal Properties Corporation-Airport	-	-	9,600.0	28,000.0	-	-	-	-
<b>Pay-As-You-Go</b>								
Water & Water Reclamation Development Fees	5,590.7	3,100.0	3,400.0	3,300.0	3,300.0	3,300.0	3,300.0	3,300.0
Grants	3,629.8	19,146.6	19,823.4	37,176.1	3,311.0	567.0	190.0	-
Real Estate	747.8	-	-	-	-	-	-	-
Intergovernmental	3,773.3	9,010.0	11,038.3	17,505.5	18,955.0	2,000.0	8,000.0	8,000.0
In-Lieu Fees	190.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
Other Contributions	4,958.4	372.3	2,534.8	2,534.8	2,534.8	2,534.8	2,859.8	2,534.8
Interest Earnings	981.8	290.3	-	1,300.5	1,866.6	2,441.3	2,849.9	3,183.2
Miscellaneous	282.8	3,397.0	-	-	-	-	-	-
<b>Subtotal</b>	<b>68,039.8</b>	<b>150,836.2</b>	<b>46,516.4</b>	<b>139,937.0</b>	<b>116,037.4</b>	<b>10,963.1</b>	<b>17,319.7</b>	<b>17,138.0</b>
<b>Transfers In</b>								
General Fund	12,881.1	6,157.2	6,364.6	10,223.8	13,489.4	11,920.4	12,620.8	13,247.9
CIP General Fund	8,144.2	150.0	-	-	-	-	-	-
GO Bond	4,270.2	-	-	-	-	-	-	-
MPC Bond	1,924.0	-	-	-	-	-	-	-
Transportation Fund	9,586.5	13,558.8	13,908.0	10,216.2	10,513.3	10,899.0	11,364.7	11,516.0
CIP Transportation Fund	741.1	-	-	-	-	-	-	-
Tourism Development Fund	2,210.0	150.0	1,846.9	-	-	-	-	-
CIP Tourism Development Fund	1,170.5	-	-	-	-	-	-	-
Special Programs Fund	1,074.3	225.7	193.7	505.9	20.0	20.0	35.3	20.0
CIP Special Programs Fund	2.9	-	-	-	-	-	-	-
Aviation Fund	2,099.7	7.4	7.4	823.1	313.0	135.3	115.3	6.8
Water & Water Reclamation Funds	45,718.1	55,350.1	65,155.3	38,403.7	37,397.1	39,350.7	40,913.8	41,640.6
Solid Waste Fund	83.4	2,091.0	2,085.3	15.6	6.5	21.2	245.4	11.7
CIP Solid Waste Fund	40.8	-	-	-	-	-	-	-
Fleet Fund	253.7	786.3	1,373.2	95.1	8.3	27.4	31.6	15.0
CIP Fleet Fund	11.3	-	-	-	-	-	-	-
Grants	3.1	-	3.7	2.8	1.5	4.8	2.9	2.6
CIP Grants	0.2	-	-	-	-	-	-	-
In Lieu Stormwater Fund	38.1	-	-	-	-	-	-	-
Stadium Capital Improvement Fund	498.6	-	-	-	-	-	-	-
Stadium Improvement IGA	-	-	67.4	67.4	67.4	67.4	67.4	67.4
Preservation Privilege Tax Fund	1,614.2	4,280.0	8,688.7	3,880.0	3,880.0	1,380.0	380.0	380.0
Internal Service Funds	4.5	5.4	4.6	3.5	2.3	7.5	4.5	4.2
CIP Internal Service Funds	1.1	-	-	-	-	-	-	-
<b>Subtotal</b>	<b>92,371.5</b>	<b>82,761.9</b>	<b>99,698.8</b>	<b>64,237.0</b>	<b>65,698.8</b>	<b>63,833.7</b>	<b>65,781.7</b>	<b>66,912.2</b>
<b>Total Sources</b>	<b>160,411.4</b>	<b>233,598.0</b>	<b>146,215.2</b>	<b>204,174.0</b>	<b>181,736.2</b>	<b>74,796.8</b>	<b>83,101.4</b>	<b>84,050.2</b>
<b>Total Fund Balance and New Sources</b>	<b>333,125.6</b>	<b>405,721.8</b>	<b>348,520.9</b>	<b>356,646.5</b>	<b>270,840.4</b>	<b>191,103.7</b>	<b>183,785.1</b>	<b>179,879.5</b>
<b>Use of Funds:</b>								
<b>Expenditures</b>								
<b>Program</b>								
Community Facilities	19,325.9	9,720.6	3,480.7	14,712.4	20,666.2	1,662.4	202.2	202.2
Preservation	1,635.9	176,671.6	8,849.2	181,463.2	3,880.0	1,380.0	380.0	380.0
Drainage / Flood Control	6,862.0	17,078.7	4,089.6	18,794.0	1,323.0	1,787.0	28,560.4	75.0
Public Safety	4,714.0	4,344.1	2,746.9	20,231.3	3,043.8	2,038.6	1,677.8	1,672.4
Service Facilities	4,149.7	12,096.5	6,669.2	17,140.7	2,779.3	4,263.0	7,104.6	3,732.2
Transportation	18,086.2	84,220.8	84,498.1	156,385.4	30,300.5	12,419.1	11,518.9	9,300.0
Water Management	31,408.2	186,315.7	67,520.4	232,307.9	36,533.9	27,438.0	21,187.8	22,177.5
Prior Year Unexpended <sup>(a)</sup>	-	-	-	-	389,988.1	350,601.4	327,695.5	327,020.2
<b>Subtotal</b>	<b>86,181.8</b>	<b>490,448.0</b>	<b>177,854.1</b>	<b>641,035.1</b>	<b>488,514.8</b>	<b>401,589.5</b>	<b>398,327.2</b>	<b>364,559.5</b>
<b>Less: Estimated Capital Improvement Expenditures</b>		<b>(254,622.1)</b>		<b>(251,046.9)</b>	<b>(137,913.4)</b>	<b>(73,894.0)</b>	<b>(71,307.1)</b>	<b>(61,729.8)</b>
<b>Subtotal: Unexpended at Year End</b>		<b>235,825.9</b>		<b>389,988.1</b>	<b>350,601.4</b>	<b>327,695.5</b>	<b>327,020.2</b>	<b>302,829.6</b>
<b>Transfers Out</b>								
CIP General Fund	12,480.4	-	-	-	-	-	-	-
CIP Transportation Fund	346.9	-	-	-	-	-	-	-
In Lieu Stormwater Fund	108.2	-	-	-	-	-	-	-
CIP Contributions Fund	350.3	-	-	-	-	-	-	-
GO Bond	1,049.6	-	-	-	-	-	-	-
MPC Bond	984.1	-	-	-	-	-	-	-
CIP Water & Water Reclamation Funds	13,293.4	15,071.3	900.0	900.0	900.0	900.0	900.0	900.0
Tourism Development Funds	32.1	-	-	-	-	-	-	-
CIP Tourism Development Funds	984.1	150.0	-	-	-	-	-	-
Preservation Privilege Tax Funds	6.7	-	-	-	-	-	-	-
CIP Stadium Improvement IGA	498.6	-	-	-	-	-	-	-
Debt Service	15,655.8	16,091.4	15,305.8	15,595.3	15,720.1	15,626.0	15,748.8	15,782.1
Aviation Fund	1,239.8	113.5	113.5	-	-	-	-	-
Solid Waste Fund	1.4	1,875.0	1,875.0	-	-	-	-	-
<b>Subtotal</b>	<b>47,031.4</b>	<b>33,301.2</b>	<b>18,194.3</b>	<b>16,495.3</b>	<b>16,620.1</b>	<b>16,526.0</b>	<b>16,648.8</b>	<b>16,682.1</b>
<b>Total Uses</b>	<b>133,213.3</b>	<b>287,923.4</b>	<b>196,048.4</b>	<b>267,542.2</b>	<b>154,533.6</b>	<b>90,419.9</b>	<b>87,955.8</b>	<b>78,412.0</b>
Other GAAP Adjustments <sup>(b)</sup>	2,393.3	-	-	-	-	-	-	-
<b>Ending Fund Balance</b>								
Capital Grant Contingency <sup>(c)</sup>	-	5,000.0	-	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0
Capital Aviation Contingency <sup>(c)</sup>	-	-	-	250.0	-	-	-	-
Capital Aviation Grant Contingency <sup>(c)</sup>	-	3,850.1	320.0	3,800.1	-	-	-	-
Capital General Contingency <sup>(c)</sup>	-	26,000.0	25,043.1	9,500.0	4,500.0	4,500.0	4,500.0	4,500.0
<b>Reserved:</b>								
Reserved Fund Balance	202,305.6	117,798.4	152,472.5	89,104.2	116,306.9	100,683.7	95,829.3	101,467.5
<b>Total Ending Fund Balance</b>	<b>202,305.6</b>	<b>117,798.4</b>	<b>152,472.5</b>	<b>89,104.2</b>	<b>116,306.9</b>	<b>100,683.7</b>	<b>95,829.3</b>	<b>101,467.5</b>

(a) Prior year unexpended sources and uses of funds are estimated and included in Beginning Fund Balance (Sources) and Program (Uses). Prior year unexpended uses are based on annual cashflow estimates.

(b) Impacts fund balance, but does not affect revenues or expenses.

(c) Unfunded contingencies that allow for the expenditure of unanticipated revenue are not included in the beginning or ending fund balance. City Council approval is required before use of capital contingencies.



Site 71 Well Site & Booster Pump Station



# Five-Year Capital Improvement Plan

## FY 2016/17 – 2020/21 Sorted by Alphabetical

(In thousands of dollars)

The **Project List** section includes four lists. The first three lists summarize all capital projects in 1) alphabetical order, 2) city division and 3) program. The fourth list summarizes the projected operating costs associated with capital projects. The first three project lists reflect each project's adopted FY 2016/17 budget with the forecasted funding through FY 2020/21. The forecasted funding, which includes FY 2017/18 through FY 2020/21, was not adopted by the City Council as part of the FY 2016/17 budget adoption. This information serves as part of the city's long-term capital planning process and will be revisited and updated in future budget reviews. The estimated operating impacts list includes a four-year summary of the projected operating costs associated with capital projects. The operating impacts for projects completed prior to or during FY 2016/17 are calculated and included in the Adopted Operating Budget. Following the four lists are project descriptions which include detailed information arranged by major program on each of the city's capital projects, including Community Facilities, Preservation, Drainage/Flood Control, Public Safety, Service Facilities, Transportation and Water Management. The detailed information includes project location, project description, funding source(s) and project number, if applicable.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
124th & 128th Street - Street, Intersection and Multi-Use Path Improvements (SB55)	292.2	-	-	-	-	292.2	93
9-1-1 Communication Equipment Replacement (JB51)	72.3	-	-	-	-	72.3	65
9-1-1 Voice Logging Recorder Replacement (MB60)	30.9	-	-	-	-	30.9	65
Additional Compressed Natural Gas (CNG) Fuel Dispensers (BB51)	80.6	-	-	-	-	80.6	72
Additional Compressed Natural Gas (CNG) Station (BC01)	2,632.3	-	-	-	-	2,632.3	72
Additional Servers for Digital Evidence and Forensic Recovery (JB63)	32.0	-	-	-	-	32.0	65
Advance Water Treatment Plant Membranes - Wastewater (VB69)	400.7	-	401.2	812.6	544.8	2,159.3	115
Advance Water Treatment Plant Membranes - Water (WB65)	70.8	-	70.8	143.4	96.2	381.2	125
Advanced Mobile Solutions (JB61)	105.7	-	-	-	-	105.7	66
Advanced Traffic Signal Control Cabinets - Phase I (TC04)	717.7	-	-	-	-	717.7	100
Advanced Traffic Signal Control Cabinets - Phase II (TEMP1191)	-	-	-	721.0	-	721.0	100
Air Park Zone 4 Water Transmission Main (WD02)	250.0	1,450.0	-	-	-	1,700.0	125
Airport Future Grants Contingency (ZB53)	3,600.1	-	-	-	-	3,600.1	87
Airport Pavement Preservation Program (AB52)	522.1	100.0	100.0	-	-	722.1	87
Airport Security System Improvements (AB54)	34.2	-	-	-	-	34.2	87
Airport Terminal Area Redevelopment Project (AB59)	27,898.2	-	-	-	-	27,898.2	87
Apron Reconstruction - Delta Apron (AC02)	2,400.0	1,400.0	-	-	-	3,800.0	88
Aquatics Chemical System Replacement (PD01)	531.6	1,460.2	1,460.2	-	-	3,452.0	40
Arizona Canal Path - Chaparral to McDonald to Indian Bend Wash (TB58)	3,583.3	-	-	-	-	3,583.3	105
Aviation Match Contingency (ZB52)	250.0	-	-	-	-	250.0	88
* Bikeways Program (YD28)	500.0	500.0	500.0	500.0	500.0	2,500.0	105
* Bikeways Program (YB77)	43.9	-	-	-	-	43.9	105
Booster Pump Station 42B Infrastructure Improvements (WB67)	3,845.5	-	-	-	-	3,845.5	125
Booster Station Upgrades (WB76)	4,575.1	750.0	550.0	500.0	1,596.6	7,971.7	125
* Bus Stop Improvements (YB82)	335.0	-	-	-	-	335.0	106
Cameras & Communication Equipment for Special Events and Surveillance Investigations (JB60)	46.3	-	-	-	-	46.3	66
Campus Headworks Screen (VB65)	96.7	-	-	-	-	96.7	115
Campus/Central Arizona Project Drainage & Paving Improvements (Wastewater) (VB68)	2,229.1	-	-	-	-	2,229.1	116
Campus/Central Arizona Project Drainage & Paving Improvements (Water) (WB73)	550.8	-	-	-	-	550.8	126
Central Area Trail Construction (DB52)	462.9	-	-	-	-	462.9	56

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

## FY 2016/17 – 2020/21 Sorted by Alphabetical

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
Chaparral Road Traffic Calming, Sewer & Drainage Improvements-Scottsdale Rd. to 69th Place (TB61)	861.1	-	-	-	-	861.1	100
Chaparral Water Treatment Plant Intake Screens (WB62)	1,295.4	-	-	-	-	1,295.4	126
Chaparral Water Treatment Plant Pretreatment (WB56)	2,339.0	-	-	-	-	2,339.0	126
CIP Contingency (ZB50)	9,500.0	4,500.0	4,500.0	4,500.0	4,500.0	27,500.0	75
CIP Contingency for Future Grants (ZB51)	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0	25,000.0	75
City Court Lobby Enhancement and Conference Room (BD01)	88.2	-	-	-	-	88.2	72
City Microwave Radio Network Upgrade (TEMP1728)	-	-	-	3,897.2	-	3,897.2	75
* Citywide Audio/Video Equipment Replacement (YC04)	15.8	-	-	-	-	15.8	76
* Citywide Audio/Video Equipment Replacement (YTEMP1799)	-	185.3	19.6	-	212.6	417.5	76
Civic Center Mall Renovations (DC01)	174.3	-	-	-	-	174.3	40
Closed Circuit Television (CCTV)(Security Camera System) and Access Control Replacement (JD05)	781.6	359.7	407.7	239.8	239.8	2,028.6	66
Construct Airport Operations/Maintenance (AB55)	640.1	-	-	-	-	640.1	88
Crime Lab Latent Print Comparison and AFIS Room (JD06)	118.7	-	-	-	-	118.7	67
* Crime Laboratory Equipment Replacement (YC03)	125.7	-	-	-	-	125.7	67
* Crime Laboratory Equipment Replacement (YD03)	234.4	239.8	334.6	294.3	288.9	1,392.0	67
Cross Roads East Wastewater (VB51)	3,930.0	-	-	-	-	3,930.0	116
Cross Roads East Water (WB50)	4,605.2	-	-	-	-	4,605.2	127
Crosscut Canal Bridge and Path (TB63)	772.5	-	-	-	-	772.5	106
Data Center Resiliency Plan (JD01)	4,900.0	-	-	-	-	4,900.0	76
Deep Well Recharge/Recovery Facilities (WB61)	4,192.5	-	-	-	-	4,192.5	127
Desert Discovery Center Business Plan & Feasibility Analysis (DC02)	1,647.3	-	-	-	-	1,647.3	56
Downtown Lighting & Electrical Outlets (DD02)	830.9	-	-	-	-	830.9	41
Downtown Public Restroom Main Street (DD01)	730.0	-	-	-	-	730.0	41
Downtown Sidewalk Improvements (TD01)	2,000.0	2,000.0	-	-	-	4,000.0	107
Downtown Stormwater Pump Station Rehabilitation (VD02)	1,278.8	-	-	-	-	1,278.8	116
East Dynamite Area Transmission Main (WD01)	450.0	4,350.0	-	-	-	4,800.0	127
Environmental Assessment for Land Acquisition (TEMPAB57)	-	-	-	200.0	-	200.0	89
Erosion Protection/Wildlife Mitigation - Runway Approach Area (AC01)	438.5	-	-	-	-	438.5	89
Expanded McDowell Sonoran Preserve (PB66)	168,129.4	-	-	-	-	168,129.4	56
* Facilities Repair and Maintenance Program (YC01)	1,213.9	-	-	-	-	1,213.9	73
* Facilities Repair and Maintenance Program (YD01)	1,538.8	1,855.7	1,830.1	1,769.6	2,191.5	9,185.7	73
* Facilities Repair and Maintenance Program (YB64)	112.9	-	-	-	-	112.9	73
Fire Station 603 Relocation (BC04)	6,870.0	-	-	-	-	6,870.0	62
Fire Station 613 Construction (BC02)	5,262.3	-	-	-	-	5,262.3	62
Fire Station 613 Design (BB52)	461.9	-	-	-	-	461.9	63
Fire Station 616 Design and Construction (BC03)	3,789.8	-	-	-	-	3,789.8	63
Fraesfield and Granite Mountain Trailheads (PD04)	3,000.0	3,000.0	1,000.0	-	-	7,000.0	57
Frank Lloyd Wright 24-inch Transmission Main & Booster Station 83B Modifications (WC03)	15,365.2	-	-	-	-	15,365.2	128
Frank Lloyd Wright-Scottsdale Rd to Shea (SB50)	907.2	-	-	-	-	907.2	93
Gainey Ranch WWTP Reuse Recharge (VC03)	401.6	-	-	-	-	401.6	117
Granite Reef Watershed (FB50)	14,425.8	1,248.0	1,712.0	28,160.4	-	45,546.2	50
Hayden & Thunderbird Roads Waterline Replacement (WC06)	2,770.5	-	-	-	-	2,770.5	128
Hayden/Thomas Safety Improvements (TB57)	2,373.8	-	-	-	-	2,373.8	101

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

## FY 2016/17 – 2020/21 Sorted by Alphabetical

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
HVID - Harquahala Valley Irrigation District - Scottsdale Share (WC04)	1,150.0	-	-	-	-	1,150.0	128
Hydrogen Sulfide Mitigation (VB63)	848.0	-	-	-	-	848.0	117
Indian Bend Wash Lakes Phase I (PB63)	2,886.4	-	-	-	-	2,886.4	44
* Intersection Mobility Enhancements (YC19)	100.0	-	-	-	-	100.0	101
* Intersection Mobility Enhancements (YD19)	800.0	800.0	800.0	800.0	800.0	4,000.0	102
* Intersection Mobility Enhancements (YB72)	908.2	-	-	-	-	908.2	101
Irrigation Water Distribution System Improvements (WB57)	3,321.6	1,000.0	-	-	-	4,321.6	129
IT - Information Lifecycle Management (MB58)	190.6	-	-	-	-	190.6	77
* IT - Network Infrastructure (YC07)	80.2	-	-	-	-	80.2	77
* IT - Network Infrastructure (YD07)	400.0	381.6	419.7	441.5	566.8	2,209.6	77
* IT - Server Infrastructure (YC08)	637.0	-	-	-	-	637.0	78
* IT - Server Infrastructure (YD08)	535.1	356.7	1,993.6	996.3	761.3	4,643.0	78
* IT - Server Infrastructure (YB70)	378.6	-	-	-	-	378.6	79
IT - Telephone System Upgrade (MB56)	27.0	-	-	-	-	27.0	79
ITS/Signal System Upgrades (TB56)	2,952.9	-	-	-	-	2,952.9	102
IT-Web Content Management SW (MB51)	98.3	-	-	-	-	98.3	79
IWDS / Harquahala Valley Irrigation District Property - Desert Mountain Golf Club (WB69)	16,325.9	-	-	-	-	16,325.9	129
IWDS / Harquahala Valley Irrigation District Property - Scottsdale National Golf Club (WB80)	4,194.6	-	-	-	-	4,194.6	129
Lab Information Management System (LIMS) Integration (MB62)	112.1	-	-	-	-	112.1	68
License and Permit Management System (JD04)	300.0	-	-	-	-	300.0	79
Lobby Queuing System Replacements (JD03)	84.0	-	-	-	-	84.0	80
Loop 101 Detention Basin (FB53)	691.1	-	-	-	-	691.1	50
Marshall Way Entry Feature (DB57)	131.6	-	-	-	-	131.6	41
Master Plan - Water (WB78)	721.9	-	520.0	-	-	1,241.9	130
Master Plan Water Reclamation (VB70)	562.2	-	350.0	-	-	912.2	118
McCormick Park Reservoir Removal (PD03)	1,037.7	-	-	-	-	1,037.7	44
McDowell Road Bicycle Lanes from Pima Road to 64th Street (SD01)	470.0	3,368.0	-	-	-	3,838.0	93
Miller Road Underpass at the 101 Freeway (SC03)	1,000.0	-	-	-	-	1,000.0	94
Mobile Network Software (MB57)	286.1	-	-	-	-	286.1	80
Mustang Transit Passenger Facility (TB50)	7,500.7	-	-	-	-	7,500.7	107
* Neighborhood Stormwater Management Improvements (YC05)	67.0	-	-	-	-	67.0	51
* Neighborhood Stormwater Management Improvements (YD05)	75.0	75.0	75.0	75.0	75.0	375.0	51
* Neighborhood Traffic Management Program (YD21)	250.0	250.0	250.0	250.0	250.0	1,250.0	102
* Neighborhood Traffic Management Program (YB74)	262.9	-	-	-	-	262.9	102
* Neighborhood Traffic Management Program (YB62)	10.2	-	-	-	-	10.2	103
Network Infrastructure Extension (MB54)	71.6	-	-	-	-	71.6	80
North and Central Area Access Control & Stabilization (PB54)	1,964.4	100.0	100.0	100.0	100.0	2,364.4	57
North Area Trail Construction (PB50)	1,391.2	100.0	100.0	100.0	100.0	1,791.2	57
North Corp Yard CNG Compliance (BB53)	470.5	-	-	-	-	470.5	74
Northeast Sewer Pumpback Station Sewerline Replacement, Site Wall to ADOT ROW (VB61)	356.5	-	-	-	-	356.5	118
Online Bill Payment and Presentment System (JB65)	327.4	-	-	-	-	327.4	81
Osborn Road Complete Street: Hayden Road to Scottsdale Road (TEMP1803)	-	-	315.0	1,297.9	-	1,612.9	94

\*Recurring Capital Maintenance Projects.





# Five-Year Capital Improvement Plan

## FY 2016/17 – 2020/21 Sorted by Alphabetical

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
Paiute Park Playground and Rehabilitation (PB70)	88.1	-	-	-	-	88.1	45
Papago Park Playground Rehabilitation (PB69)	108.6	-	-	-	-	108.6	45
Paradise Drive Storm Drain (FB57)	272.3	-	-	-	-	272.3	51
Pave 3 Dirt Roads (TB64)	383.9	-	-	-	-	383.9	108
* Pavement Overlay Program (YC29)	4,593.0	-	-	-	-	4,593.0	94
* Pavement Overlay Program (YD29)	6,550.0	6,550.0	6,550.0	6,550.0	6,550.0	32,750.0	95
Pavement Replacement (TC06)	12,595.0	-	-	-	-	12,595.0	95
Payroll System Replacement (JB59)	870.2	-	-	-	-	870.2	81
Pima Road - Pinnacle Peak to Happy Valley (SC01)	3,581.7	4,571.5	-	-	-	8,153.2	95
Pima Road: Via Linda to Via de Ventura (SB57)	1,810.8	-	-	-	-	1,810.8	96
Pima Road: Krail Street to Chaparral Road (SC04)	473.0	343.0	807.0	-	-	1,623.0	96
Pima/Dynamite Trailhead (PB65)	4,000.0	500.0	-	-	-	4,500.0	58
Pinnacle Vista / Cavalliere Flat Culvert (FC02)	193.1	-	-	-	-	193.1	51
* Police Portable & Vehicle Radio Replacement (YC06)	23.4	-	-	-	-	23.4	68
* Police Portable & Vehicle Radio Replacement (YD06)	100.8	1,144.5	1,144.5	991.9	991.9	4,373.6	68
* Police Portable and Vehicle Radio Replacement (YB68)	111.6	-	-	-	-	111.6	69
Policy & Standards Management Software (MB63)	47.9	-	-	-	-	47.9	69
Preserve Trail, Habitat & Safety Improvements (PB52)	122.9	30.0	30.0	30.0	30.0	242.9	58
Princess Drive Drainage Project (FC01)	1,082.6	-	-	325.0	-	1,407.6	52
Public Records and Litigation Document Review Software (JB50)	80.6	-	-	-	-	80.6	82
Public Safety Radio Network Lifecycle Project (JD02)	151.8	1,299.8	151.8	151.8	151.8	1,907.0	64
Public Safety Radio System - Phase I - Final Conversion (MC01)	501.0	-	-	-	-	501.0	69
Purchase of Transit Maintenance Vehicle (TC05)	70.0	-	-	-	-	70.0	108
Radio Telemetry Monitoring Automation Citywide - Wastewater (VB58)	848.4	200.0	350.0	275.0	450.0	2,123.4	118
Radio Telemetry Monitoring Automation Citywide - Water (WB60)	898.9	75.0	290.0	215.0	220.4	1,699.3	130
Raintree Drive: Hayden Road to Loop 101 (SC02)	2,506.0	6,500.0	-	-	-	9,006.0	97
Raintree Drive: Scottsdale Road to Hayden Road (SB53)	22,394.5	-	-	-	-	22,394.5	97
Reata Wash Flood Control (FB55)	502.9	-	-	-	-	502.9	52
Reclamation Regulatory Compliance (VB59)	250.0	-	-	-	-	250.0	119
Reconstruct Taxiway "A" and Exits (AB60)	7,504.7	-	-	-	-	7,504.7	89
Records Management System & Computer Aided Dispatch Enhancements and Refresh (JB62)	395.7	-	-	-	-	395.7	70
Redfield Road: Raintree Drive to Hayden Road (SB56)	2,142.9	-	-	-	-	2,142.9	98
Regional Recharge Basins (WB74)	4,810.7	2,600.0	2,600.0	-	-	10,010.7	130
Rehabilitate Runway 03/21 (AB61)	7,300.0	-	-	-	-	7,300.0	90
Rehabilitate Taxiway "B" and Exits (AB56)	1,497.2	-	-	-	-	1,497.2	90
Rehabilitate Taxiway "C" (TEMP975)	-	70.0	630.0	-	-	700.0	90
Relocate Electrical Vault and Beacon (AD01)	600.0	-	-	-	-	600.0	91
Removal and Replacement of Sodium Hypochlorite Generation System (WB64)	30.1	-	-	-	-	30.1	131
Renovate Fire Station 605 (BC05)	828.0	-	-	-	-	828.0	64
Renovate Vista del Camino Park/Indian Bend Wash Area (TEMP1749)	-	18,464.3	-	-	-	18,464.3	45
Replace Drainage Grates (SB58)	203.7	100.0	100.0	100.0	100.0	603.7	98
Replace Electrical Pullboxes - Main Apron (AB58)	125.1	-	-	-	-	125.1	91
Runway Guard Lights (TEMP1760)	-	2,000.0	-	-	-	2,000.0	91

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

## FY 2016/17 – 2020/21 Sorted by Alphabetical

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
Runway Safety Enhancements Phase 2 (AB53)	2,009.4	-	-	-	-	2,009.4	92
RWDS Improvements (VB52)	4,342.1	1,500.0	1,500.0	1,500.0	1,500.0	10,342.1	119
Sanitary Sewer Lateral Rehabilitation (VB67)	65.9	50.0	50.0	50.0	50.0	265.9	119
Scottsdale Road Preservation Streetscape Enhancement (DB50)	3,869.8	-	-	-	-	3,869.8	42
Scottsdale Stadium & Indian School Park Scoreboards (PC02)	155.9	-	-	-	-	155.9	46
Scottsdale Stadium Infrastructure Improvements (PB57)	813.3	202.2	202.2	202.2	202.2	1,622.1	46
Scottsdale Stadium Masterplan (PC03)	263.8	-	-	-	-	263.8	46
Scottsdale Stadium Safety Repairs & Maintenance (PD02)	1,249.5	539.5	-	-	-	1,789.0	47
Scottsdale's Museum of the West (DB55)	115.9	-	-	-	-	115.9	42
Second Street Bike Path Connection (SD02)	70.0	330.0	-	-	-	400.0	98
Secondary Clarifier Rehabilitation (VB64)	845.3	-	-	-	-	845.3	120
Shea Underpass Access at 124th Street (TB66)	1,484.4	-	-	-	-	1,484.4	109
* Sidewalk Improvements (YD20)	350.0	350.0	350.0	350.0	350.0	1,750.0	109
* Sidewalk Improvements (YB73)	40.7	-	-	-	-	40.7	109
* Sidewalk Improvements (YB61)	18.3	-	-	-	-	18.3	110
Site 71 Well Site and Water Booster Station (WB63)	1,170.1	-	-	-	-	1,170.1	131
SkySong - ASU Scottsdale Center for Innovation - Art Component (DC03)	477.5	-	-	-	-	477.5	42
Skysong Center Transit Passenger Facility and Sidewalk Improvements (TB51)	2,164.1	-	-	-	-	2,164.1	110
Solid Waste Vehicle Monitoring System (JB66)	330.6	-	-	-	-	330.6	82
South Area Access Control (PB61)	165.4	150.0	150.0	150.0	150.0	765.4	58
South Area Trail Construction (PB51)	579.6	-	-	-	-	579.6	59
Southbound Loop 101 Frontage Road Connections (SB54)	4,226.1	-	-	-	-	4,226.1	99
SROG Operations & Solids Improvements (VB57)	1,460.0	-	-	-	-	1,460.0	120
SROG Sewage Transmission Line (VB50)	20,498.5	-	-	-	-	20,498.5	120
SROG SRO / SAI Interceptor Odor Control (VB60)	10,714.7	-	-	-	-	10,714.7	121
* SROG Wastewater Treatment Plant (YC24)	1,025.0	-	-	-	-	1,025.0	121
* SROG Wastewater Treatment Plant (YD24)	2,000.0	1,900.0	750.0	482.3	1,000.0	6,132.3	121
* SROG Wastewater Treatment Plant (YB81)	162.4	-	-	-	-	162.4	122
SROG Water Reclamation Capacity Management (VB55)	447.5	-	-	-	-	447.5	122
Street Operations North Storage Facility (BD02)	500.0	-	-	-	-	500.0	74
Street Operations Work and Asset Management System (JB56)	159.9	-	-	-	-	159.9	82
Thomas Groundwater Treatment Facility (WC07)	25,100.0	-	-	-	-	25,100.0	132
Thomas Road Bicycle Lanes and Enhanced Sidewalks (TB53)	268.3	-	-	-	-	268.3	110
Thomas Road Corridor ITS Improvements (TC07)	483.7	-	-	-	-	483.7	103
Tony Nelssen Equestrian Center Expansion (DB54)	510.6	-	-	-	-	510.6	43
TPC Golf Course Water Stations (PC04)	270.0	-	-	-	-	270.0	43
* Traffic Signal Construction (YC23)	204.4	-	-	-	-	204.4	103
* Traffic Signal Construction (YD23)	300.0	300.0	300.0	300.0	300.0	1,500.0	104
* Trail Improvement Program (YD18)	350.0	350.0	350.0	350.0	350.0	1,750.0	110
* Trail Improvement Program (YB71)	310.3	-	-	-	-	310.3	111
Transfer Station Expansion (BB56)	570.3	-	-	-	-	570.3	74
Transit Bus Purchases (TB67)	5,711.0	-	-	-	-	5,711.0	111
Transit Route 72 Improvements (TC08)	275.5	-	-	-	-	275.5	111
Transit Stop Improvements (TC03)	357.5	100.0	100.0	100.0	100.0	757.5	111

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

## FY 2016/17 – 2020/21 Sorted by Alphabetical

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
Transit Vehicle Refurbishment (TB54)	74.8	-	-	-	-	74.8	112
Underpass at Chaparral Road and IBW Path (TEMP1718)	-	318.0	1,267.1	-	-	1,585.1	99
Upper Camelback Wash Watershed (FB51)	1,483.4	-	-	-	-	1,483.4	53
Wastewater Collection System Improvements (VB62)	18,705.4	3,000.0	3,993.5	2,750.0	2,225.0	30,673.9	122
Wastewater Impact Fees (VC01)	17.8	-	-	-	-	17.8	123
Wastewater Oversizing (VB53)	310.9	-	50.0	-	100.0	460.9	123
Wastewater Technology Master Plan (VB66)	230.7	-	100.0	-	-	330.7	123
Wastewater Treatment Facility Improvements (VD01)	3,950.0	2,311.4	775.0	1,250.0	1,550.0	9,836.4	124
Water and Sewer System Optimization (WB55)	571.0	-	-	-	-	571.0	132
Water Campus Vadose Well Rehabilitation (WB79)	510.0	155.0	50.0	50.0	285.0	1,050.0	132
Water Distribution System Improvements (WB77)	14,117.2	5,400.0	6,250.0	6,100.0	5,750.0	37,617.2	133
Water Impact Fees (WC01)	17.8	-	-	-	-	17.8	133
Water Meter Replacement Program (WB66)	2,950.8	2,230.0	2,230.0	2,230.0	2,230.0	11,870.8	133
Water Oversizing (WB53)	277.4	-	-	-	-	277.4	134
Water Participation Program (WB54)	1,292.9	-	750.0	-	-	2,042.9	134
Water Quality Regulatory Compliance Programs (WB52)	14.6	-	-	-	-	14.6	134
Water Reclamation Participation Program (WB56)	1,215.2	-	750.0	500.0	-	2,465.2	124
Water Reclamation Security Enhancements (VB54)	625.8	300.0	400.0	350.0	325.0	2,000.8	124
Water Resources Impact Fees (WC02)	17.8	-	-	-	-	17.8	135
* Water System Security Enhancements (YC26)	46.8	-	-	-	-	46.8	135
* Water System Security Enhancements (YD26)	430.0	410.0	280.0	400.0	450.0	1,970.0	135
Water Technology Master Plan (WB72)	116.9	-	150.0	-	-	266.9	135
Water Treatment Facility Improvements (WD04)	6,350.0	3,375.0	3,100.0	2,950.0	2,425.0	18,200.0	136
Water Treatment Plant Membranes (WB71)	2,074.2	1,127.5	1,127.5	379.5	379.5	5,088.2	136
Well Sites (WB75)	1,012.3	-	-	-	-	1,012.3	136
Well Sites Rehabilitation (WB51)	1,975.3	-	-	250.0	250.0	2,475.3	136
WestWorld Improvements (WB58)	712.2	-	-	-	750.0	1,462.2	137
WestWorld Tent Removal (DD03)	700.0	-	-	-	-	700.0	43
WestWorld Trail Connections (TC02)	5,074.5	-	-	-	-	5,074.5	112
Wide Area Network Fiber (MB53)	160.4	-	-	-	-	160.4	83
Zone 14/16 Water Improvements Phase 2 (WB70)	14,251.1	-	-	-	-	14,251.1	137
Zone 2 Water System Improvements (WC05)	9,291.7	-	-	-	-	9,291.7	137
Zone 3W Water System Improvements (WD03)	425.0	4,350.0	-	-	-	4,775.0	138

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Administrative Services</b>							
City Microwave Radio Network Upgrade (TEMP1728)	-	-	-	3,897.2	-	3,897.2	75
* Citywide Audio/Video Equipment Replacement (YC04)	15.8	-	-	-	-	15.8	76
* Citywide Audio/Video Equipment Replacement (YTEMP1799)	-	185.3	19.6	-	212.6	417.5	76
Data Center Resiliency Plan (JD01)	4,900.0	-	-	-	-	4,900.0	76
IT - Information Lifecycle Management (MB58)	190.6	-	-	-	-	190.6	77
* IT - Network Infrastructure (YC07)	80.2	-	-	-	-	80.2	77
* IT - Network Infrastructure (YD07)	400.0	381.6	419.7	441.5	566.8	2,209.6	77
* IT - Server Infrastructure (YC08)	637.0	-	-	-	-	637.0	78
* IT - Server Infrastructure (YD08)	535.1	356.7	1,993.6	996.3	761.3	4,643.0	78
* IT - Server Infrastructure (YB70)	378.6	-	-	-	-	378.6	79
IT - Telephone System Upgrade (MB56)	27.0	-	-	-	-	27.0	79
IT-Web Content Management SW (MB51)	98.3	-	-	-	-	98.3	79
Mobile Network Software (MB57)	286.1	-	-	-	-	286.1	80
Network Infrastructure Extension (MB54)	71.6	-	-	-	-	71.6	80
Public Safety Radio Network Lifecycle Project (JD02)	151.8	1,299.8	151.8	151.8	151.8	1,907.0	64
Public Safety Radio System - Phase I - Final Conversion (MC01)	501.0	-	-	-	-	501.0	69
Wide Area Network Fiber (MB53)	160.4	-	-	-	-	160.4	83
<b>C&amp;ED - Airport</b>							
Airport Future Grants Contingency (ZB53)	3,600.1	-	-	-	-	3,600.1	87
Airport Pavement Preservation Program (AB52)	522.1	100.0	100.0	-	-	722.1	87
Airport Security System Improvements (AB54)	34.2	-	-	-	-	34.2	87
Airport Terminal Area Redevelopment Project (AB59)	27,898.2	-	-	-	-	27,898.2	87
Apron Reconstruction - Delta Apron (AC02)	2,400.0	1,400.0	-	-	-	3,800.0	88
Aviation Match Contingency (ZB52)	250.0	-	-	-	-	250.0	88
Construct Airport Operations/Maintenance (AB55)	640.1	-	-	-	-	640.1	88
Environmental Assessment for Land Acquisition (TEMPAB57)	-	-	-	200.0	-	200.0	89
Erosion Protection/Wildlife Mitigation - Runway Approach Area (AC01)	438.5	-	-	-	-	438.5	89
Reconstruct Taxiway "A" and Exits (AB60)	7,504.7	-	-	-	-	7,504.7	89
Rehabilitate Runway 03/21 (AB61)	7,300.0	-	-	-	-	7,300.0	90
Rehabilitate Taxiway "B" and Exits (AB56)	1,497.2	-	-	-	-	1,497.2	90
Rehabilitate Taxiway "C" (TEMP975)	-	70.0	630.0	-	-	700.0	90
Relocate Electrical Vault and Beacon (AD01)	600.0	-	-	-	-	600.0	91
Replace Electrical Pullboxes - Main Apron (AB58)	125.1	-	-	-	-	125.1	91
Runway Guard Lights (TEMP1760)	-	2,000.0	-	-	-	2,000.0	91
Runway Safety Enhancements Phase 2 (AB53)	2,009.4	-	-	-	-	2,009.4	92
<b>C&amp;ED - Planning &amp; Development</b>							
Granite Reef Watershed (FB50)	14,425.8	1,248.0	1,712.0	28,160.4	-	45,546.2	50
Loop 101 Detention Basin (FB53)	691.1	-	-	-	-	691.1	50
* Neighborhood Stormwater Management Improvements (YC05)	67.0	-	-	-	-	67.0	51
* Neighborhood Stormwater Management Improvements (YD05)	75.0	75.0	75.0	75.0	75.0	375.0	51
Paradise Drive Storm Drain (FB57)	272.3	-	-	-	-	272.3	51
Pinnacle Vista / Cavalliere Flat Culvert (FC02)	193.1	-	-	-	-	193.1	51

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>C&amp;ED - Planning &amp; Development</b>							
Princess Drive Drainage Project (FC01)	1,082.6	-	-	325.0	-	1,407.6	52
Reata Wash Flood Control (FB55)	502.9	-	-	-	-	502.9	52
Scottsdale Road Preservation Streetscape Enhancement (DB50)	3,869.8	-	-	-	-	3,869.8	42
Upper Camelback Wash Watershed (FB51)	1,483.4	-	-	-	-	1,483.4	53
<b>C&amp;ED - Tourism &amp; Events</b>							
Civic Center Mall Renovations (DC01)	174.3	-	-	-	-	174.3	40
Downtown Lighting & Electrical Outlets (DD02)	830.9	-	-	-	-	830.9	41
Downtown Public Restroom Main Street (DD01)	730.0	-	-	-	-	730.0	41
Marshall Way Entry Feature (DB57)	131.6	-	-	-	-	131.6	41
Scottsdale's Museum of the West (DB55)	115.9	-	-	-	-	115.9	42
<b>C&amp;ED - Transportation</b>							
124th & 128th Street - Street, Intersection and Multi-Use Path Improvements (SB55)	292.2	-	-	-	-	292.2	93
Arizona Canal Path - Chaparral to McDonald to Indian Bend Wash (TB58)	3,583.3	-	-	-	-	3,583.3	105
* Bikeways Program (YD28)	500.0	500.0	500.0	500.0	500.0	2,500.0	105
* Bikeways Program (YB77)	43.9	-	-	-	-	43.9	105
* Bus Stop Improvements (YB82)	335.0	-	-	-	-	335.0	106
Chaparral Road Traffic Calming, Sewer & Drainage Improvements-Scottsdale Rd. to 69th Place (TB61)	861.1	-	-	-	-	861.1	100
Crosscut Canal Bridge and Path (TB63)	772.5	-	-	-	-	772.5	106
Downtown Sidewalk Improvements (TD01)	2,000.0	2,000.0	-	-	-	4,000.0	107
Frank Lloyd Wright-Scottsdale Rd to Shea (SB50)	907.2	-	-	-	-	907.2	93
Hayden/Thomas Safety Improvements (TB57)	2,373.8	-	-	-	-	2,373.8	101
* Intersection Mobility Enhancements (YC19)	100.0	-	-	-	-	100.0	101
* Intersection Mobility Enhancements (YD19)	800.0	800.0	800.0	800.0	800.0	4,000.0	102
* Intersection Mobility Enhancements (YB72)	908.2	-	-	-	-	908.2	101
McDowell Road Bicycle Lanes from Pima Road to 64th Street (SD01)	470.0	3,368.0	-	-	-	3,838.0	93
Miller Road Underpass at the 101 Freeway (SC03)	1,000.0	-	-	-	-	1,000.0	94
Mustang Transit Passenger Facility (TB50)	7,500.7	-	-	-	-	7,500.7	107
* Neighborhood Traffic Management Program (YD21)	250.0	250.0	250.0	250.0	250.0	1,250.0	102
* Neighborhood Traffic Management Program (YB74)	262.9	-	-	-	-	262.9	102
* Neighborhood Traffic Management Program (YB62)	10.2	-	-	-	-	10.2	103
Osborn Road Complete Street: Hayden Road to Scottsdale Road (TEMP1803)	-	-	315.0	1,297.9	-	1,612.9	94
Pave 3 Dirt Roads (TB64)	383.9	-	-	-	-	383.9	108
Pima Road - Pinnacle Peak to Happy Valley (SC01)	3,581.7	4,571.5	-	-	-	8,153.2	95
Pima Road: Via Linda to Via de Ventura (SB57)	1,810.8	-	-	-	-	1,810.8	96
Pima Road: Krail Street to Chaparral Road (SC04)	473.0	343.0	807.0	-	-	1,623.0	96
Purchase of Transit Maintenance Vehicle (TC05)	70.0	-	-	-	-	70.0	108
Raintree Drive: Hayden Road to Loop 101 (SC02)	2,506.0	6,500.0	-	-	-	9,006.0	97
Raintree Drive: Scottsdale Road to Hayden Road (SB53)	22,394.5	-	-	-	-	22,394.5	97
Redfield Road: Raintree Drive to Hayden Road (SB56)	2,142.9	-	-	-	-	2,142.9	98
Second Street Bike Path Connection (SD02)	70.0	330.0	-	-	-	400.0	98
Shea Underpass Access at 124th Street (TB66)	1,484.4	-	-	-	-	1,484.4	109

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>C&amp;ED - Transportation</b>							
* Sidewalk Improvements (YD20)	350.0	350.0	350.0	350.0	350.0	1,750.0	109
* Sidewalk Improvements (YB73)	40.7	-	-	-	-	40.7	109
* Sidewalk Improvements (YB61)	18.3	-	-	-	-	18.3	110
Skysong Center Transit Passenger Facility and Sidewalk Improvements (TB51)	2,164.1	-	-	-	-	2,164.1	110
Southbound Loop 101 Frontage Road Connections (SB54)	4,226.1	-	-	-	-	4,226.1	99
Thomas Road Bicycle Lanes and Enhanced Sidewalks (TB53)	268.3	-	-	-	-	268.3	110
* Traffic Signal Construction (YC23)	204.4	-	-	-	-	204.4	103
* Traffic Signal Construction (YD23)	300.0	300.0	300.0	300.0	300.0	1,500.0	104
* Trail Improvement Program (YD18)	350.0	350.0	350.0	350.0	350.0	1,750.0	110
* Trail Improvement Program (YB71)	310.3	-	-	-	-	310.3	111
Transit Bus Purchases (TB67)	5,711.0	-	-	-	-	5,711.0	111
Transit Route 72 Improvements (TC08)	275.5	-	-	-	-	275.5	111
Transit Stop Improvements (TC03)	357.5	100.0	100.0	100.0	100.0	757.5	111
Transit Vehicle Refurbishment (TB54)	74.8	-	-	-	-	74.8	112
Underpass at Chaparral Road and IBW Path (TEMP1718)	-	318.0	1,267.1	-	-	1,585.1	99
WestWorld Trail Connections (TC02)	5,074.5	-	-	-	-	5,074.5	112
<b>C&amp;ED - WestWorld</b>							
Tony Nelssen Equestrian Center Expansion (DB54)	510.6	-	-	-	-	510.6	43
WestWorld Tent Removal (DD03)	700.0	-	-	-	-	700.0	43
<b>City Attorney</b>							
Public Records and Litigation Document Review Software (JB50)	80.6	-	-	-	-	80.6	82
<b>City Court</b>							
City Court Lobby Enhancement and Conference Room (BD01)	88.2	-	-	-	-	88.2	72
Lobby Queuing System Replacements (JD03)	84.0	-	-	-	-	84.0	80
<b>City Treasurer</b>							
CIP Contingency (ZB50)	9,500.0	4,500.0	4,500.0	4,500.0	4,500.0	27,500.0	75
CIP Contingency for Future Grants (ZB51)	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0	25,000.0	75
License and Permit Management System (JD04)	300.0	-	-	-	-	300.0	79
Online Bill Payment and Presentment System (JB65)	327.4	-	-	-	-	327.4	81
Payroll System Replacement (JB59)	870.2	-	-	-	-	870.2	81
<b>Community Services</b>							
Aquatics Chemical System Replacement (PD01)	531.6	1,460.2	1,460.2	-	-	3,452.0	40
Central Area Trail Construction (DB52)	462.9	-	-	-	-	462.9	56
Desert Discovery Center Business Plan & Feasibility Analysis (DC02)	1,647.3	-	-	-	-	1,647.3	56
Fraesfield and Granite Mountain Trailheads (PD04)	3,000.0	3,000.0	1,000.0	-	-	7,000.0	57
Indian Bend Wash Lakes Phase I (PB63)	2,886.4	-	-	-	-	2,886.4	44
McCormick Park Reservoir Removal (PD03)	1,037.7	-	-	-	-	1,037.7	44
North and Central Area Access Control & Stabilization (PB54)	1,964.4	100.0	100.0	100.0	100.0	2,364.4	57
North Area Trail Construction (PB50)	1,391.2	100.0	100.0	100.0	100.0	1,791.2	57
Paiute Park Playground and Rehabilitation (PB70)	88.1	-	-	-	-	88.1	45
Papago Park Playground Rehabilitation (PB69)	108.6	-	-	-	-	108.6	45
Pima/Dynamite Trailhead (PB65)	4,000.0	500.0	-	-	-	4,500.0	58

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Community Services</b>							
Preserve Trail, Habitat & Safety Improvements (PB52)	122.9	30.0	30.0	30.0	30.0	242.9	58
Renovate Vista del Camino Park/Indian Bend Wash Area (TEMP1749)	-	18,464.3	-	-	-	18,464.3	45
Scottsdale Stadium & Indian School Park Scoreboards (PC02)	155.9	-	-	-	-	155.9	46
Scottsdale Stadium Infrastructure Improvements (PB57)	813.3	202.2	202.2	202.2	202.2	1,622.1	46
Scottsdale Stadium Masterplan (PC03)	263.8	-	-	-	-	263.8	46
Scottsdale Stadium Safety Repairs & Maintenance (PD02)	1,249.5	539.5	-	-	-	1,789.0	47
South Area Access Control (PB61)	165.4	150.0	150.0	150.0	150.0	765.4	58
South Area Trail Construction (PB51)	579.6	-	-	-	-	579.6	59
TPC Golf Course Water Stations (PC04)	270.0	-	-	-	-	270.0	43
<b>Public Safety - Fire</b>							
Fire Station 603 Relocation (BC04)	6,870.0	-	-	-	-	6,870.0	62
Fire Station 613 Construction (BC02)	5,262.3	-	-	-	-	5,262.3	62
Fire Station 613 Design (BB52)	461.9	-	-	-	-	461.9	63
Fire Station 616 Design and Construction (BC03)	3,789.8	-	-	-	-	3,789.8	63
Renovate Fire Station 605 (BC05)	828.0	-	-	-	-	828.0	64
<b>Public Safety - Police</b>							
9-1-1 Communication Equipment Replacement (JB51)	72.3	-	-	-	-	72.3	65
9-1-1 Voice Logging Recorder Replacement (MB60)	30.9	-	-	-	-	30.9	65
Additional Servers for Digital Evidence and Forensic Recovery (JB63)	32.0	-	-	-	-	32.0	65
Advanced Mobile Solutions (JB61)	105.7	-	-	-	-	105.7	66
Cameras & Communication Equipment for Special Events and Surveillance Investigations (JB60)	46.3	-	-	-	-	46.3	66
Closed Circuit Television (CCTV)(Security Camera System) and Access Control Replacement (JD05)	781.6	359.7	407.7	239.8	239.8	2,028.6	66
Crime Lab Latent Print Comparison and AFIS Room (JD06)	118.7	-	-	-	-	118.7	67
* Crime Laboratory Equipment Replacement (YC03)	125.7	-	-	-	-	125.7	67
* Crime Laboratory Equipment Replacement (YD03)	234.4	239.8	334.6	294.3	288.9	1,392.0	67
Lab Information Management System (LIMS) Integration (MB62)	112.1	-	-	-	-	112.1	68
* Police Portable & Vehicle Radio Replacement (YC06)	23.4	-	-	-	-	23.4	68
* Police Portable & Vehicle Radio Replacement (YD06)	100.8	1,144.5	1,144.5	991.9	991.9	4,373.6	68
* Police Portable and Vehicle Radio Replacement (YB68)	111.6	-	-	-	-	111.6	69
Policy & Standards Management Software (MB63)	47.9	-	-	-	-	47.9	69
Records Management System & Computer Aided Dispatch Enhancements and Refresh (JB62)	395.7	-	-	-	-	395.7	70
<b>Public Works</b>							
Additional Compressed Natural Gas (CNG) Fuel Dispensers (BB51)	80.6	-	-	-	-	80.6	72
Additional Compressed Natural Gas (CNG) Station (BC01)	2,632.3	-	-	-	-	2,632.3	72
Advanced Traffic Signal Control Cabinets - Phase I (TC04)	717.7	-	-	-	-	717.7	100
Advanced Traffic Signal Control Cabinets - Phase II (TEMP1191)	-	-	-	721.0	-	721.0	100
Expanded McDowell Sonoran Preserve (PB66)	168,129.4	-	-	-	-	168,129.4	56
* Facilities Repair and Maintenance Program (YC01)	1,213.9	-	-	-	-	1,213.9	73
* Facilities Repair and Maintenance Program (YD01)	1,538.8	1,855.7	1,830.1	1,769.6	2,191.5	9,185.7	73
* Facilities Repair and Maintenance Program (YB64)	112.9	-	-	-	-	112.9	73

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Public Works</b>							
ITS/Signal System Upgrades (TB56)	2,952.9	-	-	-	-	2,952.9	102
North Corp Yard CNG Compliance (BB53)	470.5	-	-	-	-	470.5	74
* Pavement Overlay Program (YC29)	4,593.0	-	-	-	-	4,593.0	94
* Pavement Overlay Program (YD29)	6,550.0	6,550.0	6,550.0	6,550.0	6,550.0	32,750.0	95
Pavement Replacement (TC06)	12,595.0	-	-	-	-	12,595.0	95
Replace Drainage Grates (SB58)	203.7	100.0	100.0	100.0	100.0	603.7	98
SkySong - ASU Scottsdale Center for Innovation - Art Component (DC03)	477.5	-	-	-	-	477.5	42
Solid Waste Vehicle Monitoring System (JB66)	330.6	-	-	-	-	330.6	82
Street Operations North Storage Facility (BD02)	500.0	-	-	-	-	500.0	74
Street Operations Work and Asset Management System (JB56)	159.9	-	-	-	-	159.9	82
Thomas Road Corridor ITS Improvements (TC07)	483.7	-	-	-	-	483.7	103
Transfer Station Expansion (BB56)	570.3	-	-	-	-	570.3	74
<b>Water Resources</b>							
Advance Water Treatment Plant Membranes - Wastewater (VB69)	400.7	-	401.2	812.6	544.8	2,159.3	115
Advance Water Treatment Plant Membranes - Water (WB65)	70.8	-	70.8	143.4	96.2	381.2	125
Air Park Zone 4 Water Transmission Main (WD02)	250.0	1,450.0	-	-	-	1,700.0	125
Booster Pump Station 42B Infrastructure Improvements (WB67)	3,845.5	-	-	-	-	3,845.5	125
Booster Station Upgrades (WB76)	4,575.1	750.0	550.0	500.0	1,596.6	7,971.7	125
Campus Headworks Screen (VB65)	96.7	-	-	-	-	96.7	115
Campus/Central Arizona Project Drainage & Paving Improvements (Wastewater) (VB68)	2,229.1	-	-	-	-	2,229.1	116
Campus/Central Arizona Project Drainage & Paving Improvements (Water) (WB73)	550.8	-	-	-	-	550.8	126
Chaparral Water Treatment Plant Intake Screens (WB62)	1,295.4	-	-	-	-	1,295.4	126
Chaparral Water Treatment Plant Pretreatment (WB56)	2,339.0	-	-	-	-	2,339.0	126
Cross Roads East Wastewater (VB51)	3,930.0	-	-	-	-	3,930.0	116
Cross Roads East Water (WB50)	4,605.2	-	-	-	-	4,605.2	127
Deep Well Recharge/Recovery Facilities (WB61)	4,192.5	-	-	-	-	4,192.5	127
Downtown Stormwater Pump Station Rehabilitation (VD02)	1,278.8	-	-	-	-	1,278.8	116
East Dynamite Area Transmission Main (WD01)	450.0	4,350.0	-	-	-	4,800.0	127
Frank Lloyd Wright 24-inch Transmission Main & Booster Station 83B Modifications (WC03)	15,365.2	-	-	-	-	15,365.2	128
Gainey Ranch WWTP Reuse Recharge (VC03)	401.6	-	-	-	-	401.6	117
Hayden & Thunderbird Roads Waterline Replacement (WC06)	2,770.5	-	-	-	-	2,770.5	128
HVID - Harquahala Valley Irrigation District - Scottsdale Share (WC04)	1,150.0	-	-	-	-	1,150.0	128
Hydrogen Sulfide Mitigation (VB63)	848.0	-	-	-	-	848.0	117
Irrigation Water Distribution System Improvements (WB57)	3,321.6	1,000.0	-	-	-	4,321.6	129
IWDS / Harquahala Valley Irrigation District Property - Desert Mountain Golf Club (WB69)	16,325.9	-	-	-	-	16,325.9	129
IWDS / Harquahala Valley Irrigation District Property - Scottsdale National Golf Club (WB80)	4,194.6	-	-	-	-	4,194.6	129
Master Plan - Water (WB78)	721.9	-	520.0	-	-	1,241.9	130
Master Plan Water Reclamation (VB70)	562.2	-	350.0	-	-	912.2	118
Northeast Sewer Pumpback Station Sewerline Replacement, Site Wall to ADOT ROW (VB61)	356.5	-	-	-	-	356.5	118

\*Recurring Capital Maintenance Projects.





# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Water Resources</b>							
Radio Telemetry Monitoring Automation Citywide - Wastewater (VB58)	848.4	200.0	350.0	275.0	450.0	2,123.4	118
Radio Telemetry Monitoring Automation Citywide - Water (WB60)	898.9	75.0	290.0	215.0	220.4	1,699.3	130
Reclamation Regulatory Compliance (VB59)	250.0	-	-	-	-	250.0	119
Regional Recharge Basins (WB74)	4,810.7	2,600.0	2,600.0	-	-	10,010.7	130
Removal and Replacement of Sodium Hypochlorite Generation System (WB64)	30.1	-	-	-	-	30.1	131
RWDS Improvements (VB52)	4,342.1	1,500.0	1,500.0	1,500.0	1,500.0	10,342.1	119
Sanitary Sewer Lateral Rehabilitation (VB67)	65.9	50.0	50.0	50.0	50.0	265.9	119
Secondary Clarifier Rehabilitation (VB64)	845.3	-	-	-	-	845.3	120
Site 71 Well Site and Water Booster Station (WB63)	1,170.1	-	-	-	-	1,170.1	131
SROG Operations & Solids Improvements (VB57)	1,460.0	-	-	-	-	1,460.0	120
SROG Sewage Transmission Line (VB50)	20,498.5	-	-	-	-	20,498.5	120
SROG SRO / SAI Interceptor Odor Control (VB60)	10,714.7	-	-	-	-	10,714.7	121
* SROG Wastewater Treatment Plant (YC24)	1,025.0	-	-	-	-	1,025.0	121
* SROG Wastewater Treatment Plant (YD24)	2,000.0	1,900.0	750.0	482.3	1,000.0	6,132.3	121
* SROG Wastewater Treatment Plant (YB81)	162.4	-	-	-	-	162.4	122
SROG Water Reclamation Capacity Management (VB55)	447.5	-	-	-	-	447.5	122
Thomas Groundwater Treatment Facility (WC07)	25,100.0	-	-	-	-	25,100.0	132
Wastewater Collection System Improvements (VB62)	18,705.4	3,000.0	3,993.5	2,750.0	2,225.0	30,673.9	122
Wastewater Impact Fees (VC01)	17.8	-	-	-	-	17.8	123
Wastewater Oversizing (VB53)	310.9	-	50.0	-	100.0	460.9	123
Wastewater Technology Master Plan (VB66)	230.7	-	100.0	-	-	330.7	123
Wastewater Treatment Facility Improvements (VD01)	3,950.0	2,311.4	775.0	1,250.0	1,550.0	9,836.4	124
Water and Sewer System Optimization (WB55)	571.0	-	-	-	-	571.0	132
Water Campus Vadose Well Rehabilitation (WB79)	510.0	155.0	50.0	50.0	285.0	1,050.0	132
Water Distribution System Improvements (WB77)	14,117.2	5,400.0	6,250.0	6,100.0	5,750.0	37,617.2	133
Water Impact Fees (WC01)	17.8	-	-	-	-	17.8	133
Water Meter Replacement Program (WB66)	2,950.8	2,230.0	2,230.0	2,230.0	2,230.0	11,870.8	133
Water Oversizing (WB53)	277.4	-	-	-	-	277.4	134
Water Participation Program (WB54)	1,292.9	-	750.0	-	-	2,042.9	134
Water Quality Regulatory Compliance Programs (WB52)	14.6	-	-	-	-	14.6	134
Water Reclamation Participation Program (VB56)	1,215.2	-	750.0	500.0	-	2,465.2	124
Water Reclamation Security Enhancements (VB54)	625.8	300.0	400.0	350.0	325.0	2,000.8	124
Water Resources Impact Fees (WC02)	17.8	-	-	-	-	17.8	135
* Water System Security Enhancements (YC26)	46.8	-	-	-	-	46.8	135
* Water System Security Enhancements (YD26)	430.0	410.0	280.0	400.0	450.0	1,970.0	135
Water Technology Master Plan (WB72)	116.9	-	150.0	-	-	266.9	135
Water Treatment Facility Improvements (WD04)	6,350.0	3,375.0	3,100.0	2,950.0	2,425.0	18,200.0	136
Water Treatment Plant Membranes (WB71)	2,074.2	1,127.5	1,127.5	379.5	379.5	5,088.2	136
Well Sites (WB75)	1,012.3	-	-	-	-	1,012.3	136
Well Sites Rehabilitation (WB51)	1,975.3	-	-	250.0	250.0	2,475.3	136
WestWorld Improvements (WB58)	712.2	-	-	-	750.0	1,462.2	137
Zone 14/16 Water Improvements Phase 2 (WB70)	14,251.1	-	-	-	-	14,251.1	137
Zone 2 Water System Improvements (WC05)	9,291.7	-	-	-	-	9,291.7	137

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Division

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Water Resources</b>							
Zone 3W Water System Improvements (WD03)	425.0	4,350.0	-	-	-	4,775.0	138

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Program

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Community Facilities - Neighborhood &amp; Community</b>							
Aquatics Chemical System Replacement (PD01)	531.6	1,460.2	1,460.2	-	-	3,452.0	40
Civic Center Mall Renovations (DC01)	174.3	-	-	-	-	174.3	40
Downtown Lighting & Electrical Outlets (DD02)	830.9	-	-	-	-	830.9	41
Downtown Public Restroom Main Street (DD01)	730.0	-	-	-	-	730.0	41
Marshall Way Entry Feature (DB57)	131.6	-	-	-	-	131.6	41
Scottsdale Road Preservation Streetscape Enhancement (DB50)	3,869.8	-	-	-	-	3,869.8	42
Scottsdale's Museum of the West (DB55)	115.9	-	-	-	-	115.9	42
SkySong - ASU Scottsdale Center for Innovation - Art Component (DC03)	477.5	-	-	-	-	477.5	42
Tony Nelssen Equestrian Center Expansion (DB54)	510.6	-	-	-	-	510.6	43
TPC Golf Course Water Stations (PC04)	270.0	-	-	-	-	270.0	43
WestWorld Tent Removal (DD03)	700.0	-	-	-	-	700.0	43
<b>Community Facilities - Parks/Park Improvements</b>							
Indian Bend Wash Lakes Phase I (PB63)	2,886.4	-	-	-	-	2,886.4	44
McCormick Park Reservoir Removal (PD03)	1,037.7	-	-	-	-	1,037.7	44
Paiute Park Playground and Rehabilitation (PB70)	88.1	-	-	-	-	88.1	45
Papago Park Playground Rehabilitation (PB69)	108.6	-	-	-	-	108.6	45
Renovate Vista del Camino Park/Indian Bend Wash Area (TEMP1749)	-	18,464.3	-	-	-	18,464.3	45
Scottsdale Stadium & Indian School Park Scoreboards (PC02)	155.9	-	-	-	-	155.9	46
Scottsdale Stadium Infrastructure Improvements (PB57)	813.3	202.2	202.2	202.2	202.2	1,622.1	46
Scottsdale Stadium Masterplan (PC03)	263.8	-	-	-	-	263.8	46
Scottsdale Stadium Safety Repairs & Maintenance (PD02)	1,249.5	539.5	-	-	-	1,789.0	47
<b>Drainage / Flood Control - Drainage / Flood Control</b>							
Granite Reef Watershed (FB50)	14,425.8	1,248.0	1,712.0	28,160.4	-	45,546.2	50
Loop 101 Detention Basin (FB53)	691.1	-	-	-	-	691.1	50
* Neighborhood Stormwater Management Improvements (YC05)	67.0	-	-	-	-	67.0	51
* Neighborhood Stormwater Management Improvements (YD05)	75.0	75.0	75.0	75.0	75.0	375.0	51
Paradise Drive Storm Drain (FB57)	272.3	-	-	-	-	272.3	51
Pinnacle Vista / Cavalliere Flat Culvert (FC02)	193.1	-	-	-	-	193.1	51
Princess Drive Drainage Project (FC01)	1,082.6	-	-	325.0	-	1,407.6	52
Reata Wash Flood Control (FB55)	502.9	-	-	-	-	502.9	52
Upper Camelback Wash Watershed (FB51)	1,483.4	-	-	-	-	1,483.4	53
<b>Preservation - Preservation/Preservation Improvements</b>							
Central Area Trail Construction (DB52)	462.9	-	-	-	-	462.9	56
Desert Discovery Center Business Plan & Feasibility Analysis (DC02)	1,647.3	-	-	-	-	1,647.3	56
Expanded McDowell Sonoran Preserve (PB66)	168,129.4	-	-	-	-	168,129.4	56
Fraesfield and Granite Mountain Trailheads (PD04)	3,000.0	3,000.0	1,000.0	-	-	7,000.0	57
North and Central Area Access Control & Stabilization (PB54)	1,964.4	100.0	100.0	100.0	100.0	2,364.4	57
North Area Trail Construction (PB50)	1,391.2	100.0	100.0	100.0	100.0	1,791.2	57
Pima/Dynamite Trailhead (PB65)	4,000.0	500.0	-	-	-	4,500.0	58
Preserve Trail, Habitat & Safety Improvements (PB52)	122.9	30.0	30.0	30.0	30.0	242.9	58
South Area Access Control (PB61)	165.4	150.0	150.0	150.0	150.0	765.4	58

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Program

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Preservation - Preservation/Preservation Improvements</b>							
South Area Trail Construction (PB51)	579.6	-	-	-	-	579.6	59
<b>Public Safety - Fire Protection</b>							
Fire Station 603 Relocation (BC04)	6,870.0	-	-	-	-	6,870.0	62
Fire Station 613 Construction (BC02)	5,262.3	-	-	-	-	5,262.3	62
Fire Station 613 Design (BB52)	461.9	-	-	-	-	461.9	63
Fire Station 616 Design and Construction (BC03)	3,789.8	-	-	-	-	3,789.8	63
Public Safety Radio Network Lifecycle Project (JD02)	151.8	1,299.8	151.8	151.8	151.8	1,907.0	64
Renovate Fire Station 605 (BC05)	828.0	-	-	-	-	828.0	64
<b>Public Safety - Police</b>							
9-1-1 Communication Equipment Replacement (JB51)	72.3	-	-	-	-	72.3	65
9-1-1 Voice Logging Recorder Replacement (MB60)	30.9	-	-	-	-	30.9	65
Additional Servers for Digital Evidence and Forensic Recovery (JB63)	32.0	-	-	-	-	32.0	65
Advanced Mobile Solutions (JB61)	105.7	-	-	-	-	105.7	66
Cameras & Communication Equipment for Special Events and Surveillance Investigations (JB60)	46.3	-	-	-	-	46.3	66
Closed Circuit Television (CCTV)(Security Camera System) and Access Control Replacement (JD05)	781.6	359.7	407.7	239.8	239.8	2,028.6	66
Crime Lab Latent Print Comparison and AFIS Room (JD06)	118.7	-	-	-	-	118.7	67
* Crime Laboratory Equipment Replacement (YC03)	125.7	-	-	-	-	125.7	67
* Crime Laboratory Equipment Replacement (YD03)	234.4	239.8	334.6	294.3	288.9	1,392.0	67
Lab Information Management System (LIMS) Integration (MB62)	112.1	-	-	-	-	112.1	68
* Police Portable & Vehicle Radio Replacement (YC06)	23.4	-	-	-	-	23.4	68
* Police Portable & Vehicle Radio Replacement (YD06)	100.8	1,144.5	1,144.5	991.9	991.9	4,373.6	68
* Police Portable and Vehicle Radio Replacement (YB68)	111.6	-	-	-	-	111.6	69
Policy & Standards Management Software (MB63)	47.9	-	-	-	-	47.9	69
Public Safety Radio System - Phase I - Final Conversion (MC01)	501.0	-	-	-	-	501.0	69
Records Management System & Computer Aided Dispatch Enhancements and Refresh (JB62)	395.7	-	-	-	-	395.7	70
<b>Service Facilities - Municipal Facilities/Improvements</b>							
Additional Compressed Natural Gas (CNG) Fuel Dispensers (BB51)	80.6	-	-	-	-	80.6	72
Additional Compressed Natural Gas (CNG) Station (BC01)	2,632.3	-	-	-	-	2,632.3	72
City Court Lobby Enhancement and Conference Room (BD01)	88.2	-	-	-	-	88.2	72
* Facilities Repair and Maintenance Program (YC01)	1,213.9	-	-	-	-	1,213.9	73
* Facilities Repair and Maintenance Program (YD01)	1,538.8	1,855.7	1,830.1	1,769.6	2,191.5	9,185.7	73
* Facilities Repair and Maintenance Program (YB64)	112.9	-	-	-	-	112.9	73
North Corp Yard CNG Compliance (BB53)	470.5	-	-	-	-	470.5	74
Street Operations North Storage Facility (BD02)	500.0	-	-	-	-	500.0	74
Transfer Station Expansion (BB56)	570.3	-	-	-	-	570.3	74
<b>Service Facilities - Technology Improvements</b>							
CIP Contingency (ZB50)	9,500.0	4,500.0	4,500.0	4,500.0	4,500.0	27,500.0	75
CIP Contingency for Future Grants (ZB51)	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0	25,000.0	75
City Microwave Radio Network Upgrade (TEMP1728)	-	-	-	3,897.2	-	3,897.2	75
* Citywide Audio/Video Equipment Replacement (YC04)	15.8	-	-	-	-	15.8	76
* Citywide Audio/Video Equipment Replacement (YTEMP1799)	-	185.3	19.6	-	212.6	417.5	76

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Program

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b><u>Service Facilities - Technology Improvements</u></b>							
Data Center Resiliency Plan (JD01)	4,900.0	-	-	-	-	4,900.0	76
IT - Information Lifecycle Management (MB58)	190.6	-	-	-	-	190.6	77
* IT - Network Infrastructure (YC07)	80.2	-	-	-	-	80.2	77
* IT - Network Infrastructure (YD07)	400.0	381.6	419.7	441.5	566.8	2,209.6	77
* IT - Server Infrastructure (YC08)	637.0	-	-	-	-	637.0	78
* IT - Server Infrastructure (YD08)	535.1	356.7	1,993.6	996.3	761.3	4,643.0	78
* IT - Server Infrastructure (YB70)	378.6	-	-	-	-	378.6	79
IT - Telephone System Upgrade (MB56)	27.0	-	-	-	-	27.0	79
IT-Web Content Management SW (MB51)	98.3	-	-	-	-	98.3	79
License and Permit Management System (JD04)	300.0	-	-	-	-	300.0	79
Lobby Queuing System Replacements (JD03)	84.0	-	-	-	-	84.0	80
Mobile Network Software (MB57)	286.1	-	-	-	-	286.1	80
Network Infrastructure Extension (MB54)	71.6	-	-	-	-	71.6	80
Online Bill Payment and Presentment System (JB65)	327.4	-	-	-	-	327.4	81
Payroll System Replacement (JB59)	870.2	-	-	-	-	870.2	81
Public Records and Litigation Document Review Software (JB50)	80.6	-	-	-	-	80.6	82
Solid Waste Vehicle Monitoring System (JB66)	330.6	-	-	-	-	330.6	82
Street Operations Work and Asset Management System (JB56)	159.9	-	-	-	-	159.9	82
Wide Area Network Fiber (MB53)	160.4	-	-	-	-	160.4	83
<b><u>Transportation - Aviation/Aviation Improvements</u></b>							
Airport Future Grants Contingency (ZB53)	3,600.1	-	-	-	-	3,600.1	87
Airport Pavement Preservation Program (AB52)	522.1	100.0	100.0	-	-	722.1	87
Airport Security System Improvements (AB54)	34.2	-	-	-	-	34.2	87
Airport Terminal Area Redevelopment Project (AB59)	27,898.2	-	-	-	-	27,898.2	87
Apron Reconstruction - Delta Apron (AC02)	2,400.0	1,400.0	-	-	-	3,800.0	88
Aviation Match Contingency (ZB52)	250.0	-	-	-	-	250.0	88
Construct Airport Operations/Maintenance (AB55)	640.1	-	-	-	-	640.1	88
Environmental Assessment for Land Acquisition (TEMPAB57)	-	-	-	200.0	-	200.0	89
Erosion Protection/Wildlife Mitigation - Runway Approach Area (AC01)	438.5	-	-	-	-	438.5	89
Reconstruct Taxiway "A" and Exits (AB60)	7,504.7	-	-	-	-	7,504.7	89
Rehabilitate Runway 03/21 (AB61)	7,300.0	-	-	-	-	7,300.0	90
Rehabilitate Taxiway "B" and Exits (AB56)	1,497.2	-	-	-	-	1,497.2	90
Rehabilitate Taxiway "C" (TEMP975)	-	70.0	630.0	-	-	700.0	90
Relocate Electrical Vault and Beacon (AD01)	600.0	-	-	-	-	600.0	91
Replace Electrical Pullboxes - Main Apron (AB58)	125.1	-	-	-	-	125.1	91
Runway Guard Lights (TEMP1760)	-	2,000.0	-	-	-	2,000.0	91
Runway Safety Enhancements Phase 2 (AB53)	2,009.4	-	-	-	-	2,009.4	92
<b><u>Transportation - Streets/Street Improvements</u></b>							
124th & 128th Street - Street, Intersection and Multi-Use Path Improvements (SB55)	292.2	-	-	-	-	292.2	93
Frank Lloyd Wright-Scottsdale Rd to Shea (SB50)	907.2	-	-	-	-	907.2	93
McDowell Road Bicycle Lanes from Pima Road to 64th Street (SD01)	470.0	3,368.0	-	-	-	3,838.0	93
Miller Road Underpass at the 101 Freeway (SC03)	1,000.0	-	-	-	-	1,000.0	94

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Program

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Transportation - Streets/Street Improvements</b>							
Osborn Road Complete Street: Hayden Road to Scottsdale Road (TEMP1803)	-	-	315.0	1,297.9	-	1,612.9	94
* Pavement Overlay Program (YC29)	4,593.0	-	-	-	-	4,593.0	94
* Pavement Overlay Program (YD29)	6,550.0	6,550.0	6,550.0	6,550.0	6,550.0	32,750.0	95
Pavement Replacement (TC06)	12,595.0	-	-	-	-	12,595.0	95
Pima Road - Pinnacle Peak to Happy Valley (SC01)	3,581.7	4,571.5	-	-	-	8,153.2	95
Pima Road: Via Linda to Via de Ventura (SB57)	1,810.8	-	-	-	-	1,810.8	96
Pima Road: Krail Street to Chaparral Road (SC04)	473.0	343.0	807.0	-	-	1,623.0	96
Raintree Drive: Hayden Road to Loop 101 (SC02)	2,506.0	6,500.0	-	-	-	9,006.0	97
Raintree Drive: Scottsdale Road to Hayden Road (SB53)	22,394.5	-	-	-	-	22,394.5	97
Redfield Road: Raintree Drive to Hayden Road (SB56)	2,142.9	-	-	-	-	2,142.9	98
Replace Drainage Grates (SB58)	203.7	100.0	100.0	100.0	100.0	603.7	98
Second Street Bike Path Connection (SD02)	70.0	330.0	-	-	-	400.0	98
Southbound Loop 101 Frontage Road Connections (SB54)	4,226.1	-	-	-	-	4,226.1	99
Underpass at Chaparral Road and IBW Path (TEMP1718)	-	318.0	1,267.1	-	-	1,585.1	99
<b>Transportation - Traffic/Traffic Reduction</b>							
Advanced Traffic Signal Control Cabinets - Phase I (TC04)	717.7	-	-	-	-	717.7	100
Advanced Traffic Signal Control Cabinets - Phase II (TEMP1191)	-	-	-	721.0	-	721.0	100
Chaparral Road Traffic Calming, Sewer & Drainage Improvements-Scottsdale Rd. to 69th Place (TB61)	861.1	-	-	-	-	861.1	100
Hayden/Thomas Safety Improvements (TB57)	2,373.8	-	-	-	-	2,373.8	101
* Intersection Mobility Enhancements (YC19)	100.0	-	-	-	-	100.0	101
* Intersection Mobility Enhancements (YD19)	800.0	800.0	800.0	800.0	800.0	4,000.0	102
* Intersection Mobility Enhancements (YB72)	908.2	-	-	-	-	908.2	101
ITS/Signal System Upgrades (TB56)	2,952.9	-	-	-	-	2,952.9	102
* Neighborhood Traffic Management Program (YD21)	250.0	250.0	250.0	250.0	250.0	1,250.0	102
* Neighborhood Traffic Management Program (YB74)	262.9	-	-	-	-	262.9	102
* Neighborhood Traffic Management Program (YB62)	10.2	-	-	-	-	10.2	103
Thomas Road Corridor ITS Improvements (TC07)	483.7	-	-	-	-	483.7	103
* Traffic Signal Construction (YC23)	204.4	-	-	-	-	204.4	103
* Traffic Signal Construction (YD23)	300.0	300.0	300.0	300.0	300.0	1,500.0	104
<b>Transportation - Transit/Transit Improvements</b>							
Arizona Canal Path - Chaparral to McDonald to Indian Bend Wash (TB58)	3,583.3	-	-	-	-	3,583.3	105
* Bikeways Program (YD28)	500.0	500.0	500.0	500.0	500.0	2,500.0	105
* Bikeways Program (YB77)	43.9	-	-	-	-	43.9	105
* Bus Stop Improvements (YB82)	335.0	-	-	-	-	335.0	106
Crosscut Canal Bridge and Path (TB63)	772.5	-	-	-	-	772.5	106
Downtown Sidewalk Improvements (TD01)	2,000.0	2,000.0	-	-	-	4,000.0	107
Mustang Transit Passenger Facility (TB50)	7,500.7	-	-	-	-	7,500.7	107
Pave 3 Dirt Roads (TB64)	383.9	-	-	-	-	383.9	108
Purchase of Transit Maintenance Vehicle (TC05)	70.0	-	-	-	-	70.0	108
Shea Underpass Access at 124th Street (TB66)	1,484.4	-	-	-	-	1,484.4	109
* Sidewalk Improvements (YD20)	350.0	350.0	350.0	350.0	350.0	1,750.0	109
* Sidewalk Improvements (YB73)	40.7	-	-	-	-	40.7	109

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Program

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b><u>Transportation - Transit/Transit Improvements</u></b>							
* Sidewalk Improvements (YB61)	18.3	-	-	-	-	18.3	110
Skysong Center Transit Passenger Facility and Sidewalk Improvements (TB51)	2,164.1	-	-	-	-	2,164.1	110
Thomas Road Bicycle Lanes and Enhanced Sidewalks (TB53)	268.3	-	-	-	-	268.3	110
* Trail Improvement Program (YD18)	350.0	350.0	350.0	350.0	350.0	1,750.0	110
* Trail Improvement Program (YB71)	310.3	-	-	-	-	310.3	111
Transit Bus Purchases (TB67)	5,711.0	-	-	-	-	5,711.0	111
Transit Route 72 Improvements (TC08)	275.5	-	-	-	-	275.5	111
Transit Stop Improvements (TC03)	357.5	100.0	100.0	100.0	100.0	757.5	111
Transit Vehicle Refurbishment (TB54)	74.8	-	-	-	-	74.8	112
WestWorld Trail Connections (TC02)	5,074.5	-	-	-	-	5,074.5	112
<b><u>Water Management - Wastewater Improvements</u></b>							
Advance Water Treatment Plant Membranes - Wastewater (VB69)	400.7	-	401.2	812.6	544.8	2,159.3	115
Campus Headworks Screen (VB65)	96.7	-	-	-	-	96.7	115
Campus/Central Arizona Project Drainage & Paving Improvements (Wastewater) (VB68)	2,229.1	-	-	-	-	2,229.1	116
Cross Roads East Wastewater (VB51)	3,930.0	-	-	-	-	3,930.0	116
Downtown Stormwater Pump Station Rehabilitation (VD02)	1,278.8	-	-	-	-	1,278.8	116
Gainey Ranch WWTP Reuse Recharge (VC03)	401.6	-	-	-	-	401.6	117
Hydrogen Sulfide Mitigation (VB63)	848.0	-	-	-	-	848.0	117
Master Plan Water Reclamation (VB70)	562.2	-	350.0	-	-	912.2	118
Northeast Sewer Pumpback Station Sewerline Replacement, Site Wall to ADOT ROW (VB61)	356.5	-	-	-	-	356.5	118
Radio Telemetry Monitoring Automation Citywide - Wastewater (VB58)	848.4	200.0	350.0	275.0	450.0	2,123.4	118
Reclamation Regulatory Compliance (VB59)	250.0	-	-	-	-	250.0	119
RWDS Improvements (VB52)	4,342.1	1,500.0	1,500.0	1,500.0	1,500.0	10,342.1	119
Sanitary Sewer Lateral Rehabilitation (VB67)	65.9	50.0	50.0	50.0	50.0	265.9	119
Secondary Clarifier Rehabilitation (VB64)	845.3	-	-	-	-	845.3	120
SROG Operations & Solids Improvements (VB57)	1,460.0	-	-	-	-	1,460.0	120
SROG Sewage Transmission Line (VB50)	20,498.5	-	-	-	-	20,498.5	120
SROG SRO / SAI Interceptor Odor Control (VB60)	10,714.7	-	-	-	-	10,714.7	121
* SROG Wastewater Treatment Plant (YC24)	1,025.0	-	-	-	-	1,025.0	121
* SROG Wastewater Treatment Plant (YD24)	2,000.0	1,900.0	750.0	482.3	1,000.0	6,132.3	121
* SROG Wastewater Treatment Plant (YB81)	162.4	-	-	-	-	162.4	122
SROG Water Reclamation Capacity Management (VB55)	447.5	-	-	-	-	447.5	122
Wastewater Collection System Improvements (VB62)	18,705.4	3,000.0	3,993.5	2,750.0	2,225.0	30,673.9	122
Wastewater Impact Fees (VC01)	17.8	-	-	-	-	17.8	123
Wastewater Oversizing (VB53)	310.9	-	50.0	-	100.0	460.9	123
Wastewater Technology Master Plan (VB66)	230.7	-	100.0	-	-	330.7	123
Wastewater Treatment Facility Improvements (VD01)	3,950.0	2,311.4	775.0	1,250.0	1,550.0	9,836.4	124
Water Reclamation Participation Program (VB56)	1,215.2	-	750.0	500.0	-	2,465.2	124
Water Reclamation Security Enhancements (VB54)	625.8	300.0	400.0	350.0	325.0	2,000.8	124
<b><u>Water Management - Water Improvements</u></b>							
Advance Water Treatment Plant Membranes - Water (WB65)	70.8	-	70.8	143.4	96.2	381.2	125

\*Recurring Capital Maintenance Projects.



# Five-Year Capital Improvement Plan

FY 2016/17 – 2020/21 Sorted by Program

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Water Management - Water Improvements</b>							
Air Park Zone 4 Water Transmission Main (WD02)	250.0	1,450.0	-	-	-	1,700.0	125
Booster Pump Station 42B Infrastructure Improvements (WB67)	3,845.5	-	-	-	-	3,845.5	125
Booster Station Upgrades (WB76)	4,575.1	750.0	550.0	500.0	1,596.6	7,971.7	125
Campus/Central Arizona Project Drainage & Paving Improvements (Water) (WB73)	550.8	-	-	-	-	550.8	126
Chaparral Water Treatment Plant Intake Screens (WB62)	1,295.4	-	-	-	-	1,295.4	126
Chaparral Water Treatment Plant Pretreatment (WB56)	2,339.0	-	-	-	-	2,339.0	126
Cross Roads East Water (WB50)	4,605.2	-	-	-	-	4,605.2	127
Deep Well Recharge/Recovery Facilities (WB61)	4,192.5	-	-	-	-	4,192.5	127
East Dynamite Area Transmission Main (WD01)	450.0	4,350.0	-	-	-	4,800.0	127
Frank Lloyd Wright 24-inch Transmission Main & Booster Station 83B Modifications (WC03)	15,365.2	-	-	-	-	15,365.2	128
Hayden & Thunderbird Roads Waterline Replacement (WC06)	2,770.5	-	-	-	-	2,770.5	128
HVID - Harquahala Valley Irrigation District - Scottsdale Share (WC04)	1,150.0	-	-	-	-	1,150.0	128
Irrigation Water Distribution System Improvements (WB57)	3,321.6	1,000.0	-	-	-	4,321.6	129
IWDS / Harquahala Valley Irrigation District Property - Desert Mountain Golf Club (WB69)	16,325.9	-	-	-	-	16,325.9	129
IWDS / Harquahala Valley Irrigation District Property - Scottsdale National Golf Club (WB80)	4,194.6	-	-	-	-	4,194.6	129
Master Plan - Water (WB78)	721.9	-	520.0	-	-	1,241.9	130
Radio Telemetry Monitoring Automation Citywide - Water (WB60)	898.9	75.0	290.0	215.0	220.4	1,699.3	130
Regional Recharge Basins (WB74)	4,810.7	2,600.0	2,600.0	-	-	10,010.7	130
Removal and Replacement of Sodium Hypochlorite Generation System (WB64)	30.1	-	-	-	-	30.1	131
Site 71 Well Site and Water Booster Station (WB63)	1,170.1	-	-	-	-	1,170.1	131
Thomas Groundwater Treatment Facility (WC07)	25,100.0	-	-	-	-	25,100.0	132
Water and Sewer System Optimization (WB55)	571.0	-	-	-	-	571.0	132
Water Campus Vadose Well Rehabilitation (WB79)	510.0	155.0	50.0	50.0	285.0	1,050.0	132
Water Distribution System Improvements (WB77)	14,117.2	5,400.0	6,250.0	6,100.0	5,750.0	37,617.2	133
Water Impact Fees (WC01)	17.8	-	-	-	-	17.8	133
Water Meter Replacement Program (WB66)	2,950.8	2,230.0	2,230.0	2,230.0	2,230.0	11,870.8	133
Water Oversizing (WB53)	277.4	-	-	-	-	277.4	134
Water Participation Program (WB54)	1,292.9	-	750.0	-	-	2,042.9	134
Water Quality Regulatory Compliance Programs (WB52)	14.6	-	-	-	-	14.6	134
Water Resources Impact Fees (WC02)	17.8	-	-	-	-	17.8	135
* Water System Security Enhancements (YC26)	46.8	-	-	-	-	46.8	135
* Water System Security Enhancements (YD26)	430.0	410.0	280.0	400.0	450.0	1,970.0	135
Water Technology Master Plan (WB72)	116.9	-	150.0	-	-	266.9	135
Water Treatment Facility Improvements (WD04)	6,350.0	3,375.0	3,100.0	2,950.0	2,425.0	18,200.0	136
Water Treatment Plant Membranes (WB71)	2,074.2	1,127.5	1,127.5	379.5	379.5	5,088.2	136
Well Sites (WB75)	1,012.3	-	-	-	-	1,012.3	136
Well Sites Rehabilitation (WB51)	1,975.3	-	-	250.0	250.0	2,475.3	136
WestWorld Improvements (WB58)	712.2	-	-	-	750.0	1,462.2	137
Zone 14/16 Water Improvements Phase 2 (WB70)	14,251.1	-	-	-	-	14,251.1	137
Zone 2 Water System Improvements (WC05)	9,291.7	-	-	-	-	9,291.7	137
Zone 3W Water System Improvements (WD03)	425.0	4,350.0	-	-	-	4,775.0	138

\*Recurring Capital Maintenance Projects.





# Five-Year Capital Improvement Plan

## Operating Impacts

(In thousands of dollars)

Project	Forecast FY2017/18	Forecast FY2018/19	Forecast FY2019/20	Forecast FY2020/21	Total	Page #
9-1-1 Communication Equipment Replacement (JB51) Contractual Services costs.	30.0	30.0	30.0	28.0	118.0	65
Additional Compressed Natural Gas (CNG) Station (BC01) Contractual Services costs.	12.0	12.0	12.0	12.0	48.0	72
Additional Servers for Digital Evidence and Forensic Recovery (JB63) Contractual Services costs related to annual software maintenance.	46.0	46.0	46.0	46.0	184.0	65
Advanced Mobile Solutions (JB61) Contractual Services costs related to software maintenance agreements.	20.0	20.0	20.0	20.0	80.0	66
Aquatics Chemical System Replacement (PD01) Contractual Services estimated savings after implementation of the new system.	-	-	-116.5	-116.5	-233.0	40
Closed Circuit Television (CCTV)(Security Camera System) and Access Control Replacement (JD05) Contractual Services costs related to annual maintenance.	-	15.0	15.0	15.0	45.0	66
Crime Lab Latent Print Comparison and AFIS Room (JD06) Contractual Services costs.	6.6	6.6	6.6	6.6	26.4	67
Downtown Public Restroom Main Street (DD01) Contractual Services costs related to facilities maintenance.	-	12.0	12.0	12.0	36.0	41
Fire Station 603 Relocation (BC04) Contractual Services and Commodities costs related to facilities maintenance.	45.0	45.0	45.0	45.0	180.0	62
Fire Station 613 Construction (BC02) Contractual Services and Commodities costs related to facilities maintenance.	-	30.0	30.0	30.0	90.0	62
Fire Station 616 Design and Construction (BC03) Contractual Services and Commodities costs related to facilities maintenance.	30.0	30.0	30.0	30.0	120.0	63
Fraesfield and Granite Mountain Trailheads (PD04) Contractual Services costs related to facilities maintenance.	-	-	-	32.0	32.0	57
Lab Information Management System (LIMS) Integration (MB62) Contractual Services costs related to annual maintenance agreement.	11.2	11.2	11.2	11.2	44.8	68
License and Permit Management System (JD04) Contractual Services costs related to annual maintenance. A possible reduction in maintenance costs may be realized to offset this cost once the older system is replaced.	25.0	25.0	25.0	25.0	100.0	79
Lobby Queuing System Replacements (JD03) Contractual Services costs related to annual maintenance.	1.0	1.0	1.0	1.0	4.0	80



# Five-Year Capital Improvement Plan

## Operating Impacts

(In thousands of dollars)

Project	Forecast FY2017/18	Forecast FY2018/19	Forecast FY2019/20	Forecast FY2020/21	Total	Page #
Mustang Transit Passenger Facility (TB50) Contractual Services costs related to maintenance of asphalt pavement, curb and gutter, concrete sidewalks and ADA ramps.	2.2	2.2	2.2	2.2	8.8	107
Online Bill Payment and Presentment System (JB65) Contractual Services costs.	125.0	125.0	125.0	125.0	500.0	81
Payroll System Replacement (JB59) Contractual Services costs related to annual software maintenance.	156.9	156.9	156.9	156.9	627.6	81
Pima Road - Pinnacle Peak to Happy Valley (SC01) Contractual Services costs related to maintenance of asphalt pavement, curb and gutter, concrete sidewalk, ADA ramps, street sweeping and median and curb landscape.	-	-	-	53.7	53.7	95
Pima Road: Krail Street to Chaparral Road (SC04) Contractual Services costs related to maintenance of asphalt pavement, curb and gutter, concrete sidewalks, ADA ramps, street sweeping, striping and median and curb.	-	-	92.1	92.1	184.2	96
Pima/Dynamite Trailhead (PB65) Contractual Services costs related to maintenance of facilities.	-	16.0	16.0	16.0	48.0	58
Policy & Standards Management Software (MB63) Contractual Services costs related to annual maintenance agreement.	8.0	8.0	8.0	8.0	32.0	69
Public Records and Litigation Document Review Software (JB50) Contractual Services costs related to annual software maintenance.	30.0	30.0	35.0	35.0	130.0	82
Raintree Drive: Scottsdale Road to Hayden Road (SB53) Contractual Services costs related to asphalt pavement, curb and gutter, concrete sidewalks, ADA ramps, catch basins and median landscape.	28.8	28.8	28.8	28.8	115.2	97
Records Management System & Computer Aided Dispatch Enhancements and Refresh (JB62) Contractual Services costs related to maintenance agreement.	13.2	13.2	41.0	41.0	108.4	70
Redfield Road: Raintree Drive to Hayden Road (SB56) Contractual Services costs related to maintenance of an additional 100 feet of landscape median length and minor median addition.	-	1.5	1.5	1.5	4.5	98
Scottsdale Road Preservation Streetscape Enhancement (DB50) Contractual Services costs related to maintenance of curb and gutter, concrete sidewalks and ADA ramps.	0.7	0.7	0.7	0.7	2.8	42
Skysong Center Transit Passenger Facility and Sidewalk Improvements (TB51) Contractual Services costs related to maintenance of concrete sidewalks and ADA ramps.	2.1	2.1	2.1	2.1	8.4	110



# Five-Year Capital Improvement Plan

## Operating Impacts

(In thousands of dollars)

Project	Forecast FY2017/18	Forecast FY2018/19	Forecast FY2019/20	Forecast FY2020/21	Total	Page #
Southbound Loop 101 Frontage Road Connections (SB54) Contractual Services costs related to maintenance of asphalt pavement, curb and gutter, concrete and sidewalk, ADA ramps, street sweeping, striping, signs, streetlights and roundabout landscape areas.	10.2	10.2	10.2	10.2	40.8	99
Street Operations North Storage Facility (BD02) Contractual Services costs for maintenance at \$7.34 per square foot.	8.8	8.8	8.8	8.8	35.2	74
Street Operations Work and Asset Management System (JB56) Contractual Services costs related to annual maintenance.	63.0	63.0	63.0	63.0	252.0	82
<b>Total Forecasted Operating Impacts</b>	<b>675.7</b>	<b>750.2</b>	<b>758.6</b>	<b>842.3</b>	<b>3,026.8</b>	

Notes: Operating impacts relating to projects scheduled for completion in FY2016/17 have been included in the appropriate divisional operating budget.

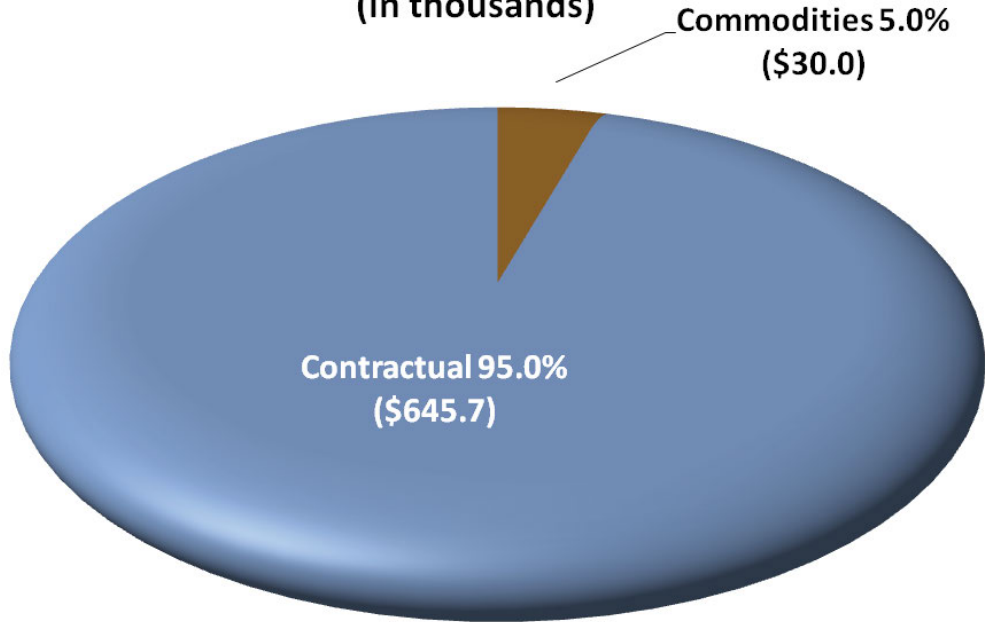
# Capital Improvement Plan – Operating Impacts

## Forecasted Operating Impacts

FY 2017/18

\$675.7

(in thousands)

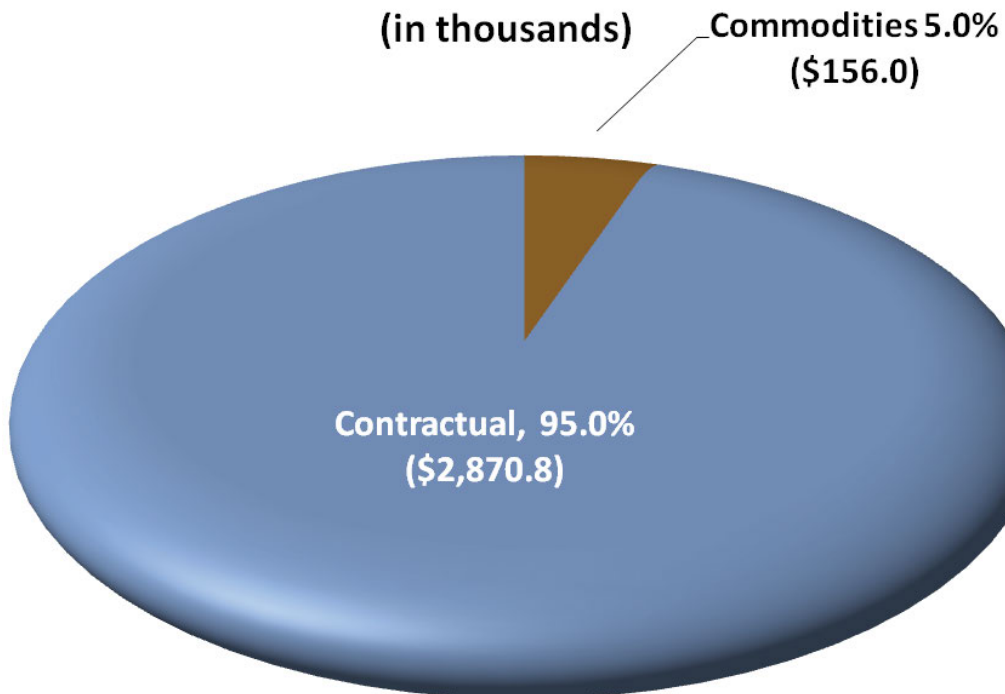


## Forecasted Operating Impacts

FY 2017/18 - 2020/21

\$3,026.80

(in thousands)





FY 2016/17 Adopted Budget



## Papago Park Playground Rehabilitation



# Project Descriptions

(In thousands of dollars)

## Community Facilities

Community Facilities programs focus on enhancing and protecting a diverse, family-oriented community where neighborhoods are safe and well maintained by providing neighborhood recreation facilities, parks and libraries. These recreational needs are met by providing parks, park improvements, multiuse paths, neighborhood enhancements, youth sports lighting, aquatic centers, library facilities and senior centers. Approximately 2.3 percent (\$14.7 million) of the CIP has been identified to address the needs of this program.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Community Facilities</b>							
<b>Neighborhood &amp; Community</b>							
Aquatics Chemical System Replacement (PD01)	531.6	1,460.2	1,460.2	-	-	3,452.0	40
Civic Center Mall Renovations (DC01)	174.3	-	-	-	-	174.3	40
Downtown Lighting & Electrical Outlets (DD02)	830.9	-	-	-	-	830.9	41
Downtown Public Restroom Main Street (DD01)	730.0	-	-	-	-	730.0	41
Marshall Way Entry Feature (DB57)	131.6	-	-	-	-	131.6	41
Scottsdale Road Preservation Streetscape Enhancement (DB50)	3,869.9	-	-	-	-	3,869.9	42
Scottsdale's Museum of the West (DB55)	115.9	-	-	-	-	115.9	42
SkySong - ASU Scottsdale Center for Innovation - Art Component (DC03)	477.5	-	-	-	-	477.5	42
Tony Nelssen Equestrian Center Expansion (DB54)	510.6	-	-	-	-	510.6	43
TPC Golf Course Water Stations (PC04)	270.0	-	-	-	-	270.0	43
WestWorld Tent Removal (DD03)	700.0	-	-	-	-	700.0	43
<b>Parks/Park Improvements</b>							
Indian Bend Wash Lakes Phase I (PB63)	2,886.3	-	-	-	-	2,886.3	44
McCormick Park Reservoir Removal (PD03)	1,037.7	-	-	-	-	1,037.7	44
Paiute Park Playground and Rehabilitation (PB70)	88.1	-	-	-	-	88.1	45
Papago Park Playground Rehabilitation (PB69)	108.6	-	-	-	-	108.6	45
Renovate Vista del Camino Park/Indian Bend Wash Area (TEMP1749)	-	18,464.3	-	-	-	18,464.3	45
Scottsdale Stadium & Indian School Park Scoreboards (PC02)	155.9	-	-	-	-	155.9	46
Scottsdale Stadium Infrastructure Improvements (PB57)	813.3	202.2	202.2	202.2	202.2	1,622.1	46
Scottsdale Stadium Masterplan (PC03)	263.8	-	-	-	-	263.8	46
Scottsdale Stadium Safety Repairs & Maintenance (PD02)	1,249.5	539.5	-	-	-	1,789.0	47

\*Recurring Capital Maintenance Projects.

**Aquatics Chemical System Replacement - (PD01)**

**Est. Completion:** 04/19                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 3,452.0

**Location:** Citywide - all aquatic centers (Eldorado, Chaparral, Cactus and McDowell Mountain Ranch)

**Project Type:** Construction Related

**Description:** Bring the city's aquatics operations into compliance with federal Homeland Security guidelines by replacing the existing chemical treatment systems in all city pools with an on-site chlorine generation system. The project will reduce/eliminate the need for bulk chemical storage and handling, reducing the threat to public safety.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	531.6	1,460.2	1,460.2	-	-	3,452.0
<b>Total:</b>	<b>531.6</b>	<b>1,460.2</b>	<b>1,460.2</b>	<b>-</b>	<b>-</b>	<b>3,452.0</b>

**Civic Center Mall Renovations - (DC01)**

**Est. Completion:** 09/16                      **ITD Expenditures (Thru 03/16):** 125.7                      **Total Project Cost:** 300.0

**Location:** Civic Center Mall

**Project Type:** Construction Related

**Description:** Master planning and conceptual design services to update the Civic Center Mall facility. The goal is to create a more desirable and useful center for community activities including an "event ready" venue which will allow the destination to be competitive in attracting large scale tourism events. The master plan will also identify necessary repairs to the infrastructure of the facility.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	72.3	-	-	-	-	72.3
Tourism Development Funds	102.0	-	-	-	-	102.0
<b>Total:</b>	<b>174.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>174.3</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**Downtown Lighting & Electrical Outlets - (DD02)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 830.9

**Location:** Primarily on Marshall Way from Goldwater north to 5th Avenue for new street lights and electrical outlets.

**Project Type:** Construction Related

**Description:** Install new street light poles and add mast arms and luminaires to existing light poles. Install conduit, conductors and electrical outlets to new and existing street light poles throughout project location.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	830.9	-	-	-	-	830.9
<b>Total:</b>	<b>830.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>830.9</b>

**Downtown Public Restroom Main Street - (DD01)**

**Est. Completion:** 12/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 730.0

**Location:** Downtown Main Street (West of Scottsdale Road)

**Project Type:** Construction Related

**Description:** Build a public restroom facility preferably on existing city property nestled between buildings along Main Street, or on leased private property.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	730.0	-	-	-	-	730.0
<b>Total:</b>	<b>730.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>730.0</b>

**Marshall Way Entry Feature - (DB57)**

**Est. Completion:** 12/17      **ITD Expenditures (Thru 03/16):** 25.4      **Total Project Cost:** 157.0

**Location:** Marshall Way and Indian School Road

**Project Type:** Construction Related

**Description:** Construction of a public art project in the general vicinity of Marshall Way and Indian School Road.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	6.9	-	-	-	-	6.9
Tourism Development Funds	124.7	-	-	-	-	124.7
<b>Total:</b>	<b>131.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>131.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Scottsdale Road Preservation Streetscape Enhancement - (DB50)**

**Est. Completion:** 12/17                      **ITD Expenditures (Thru 03/16):** 23,381.3                      **Total Project Cost:** 27,251.2

**Location:** Along Scottsdale Road from the southern to the northern city limits

**Project Type:** Construction Related

**Description:** Acquire, preserve and restore desert lands along Scottsdale Road, and promote its designation as a Scenic Corridor. Enhancement of Scottsdale Road's streetscape image along its entire length to reflect its significance as the signature roadway of the community. May include the modification, restoration, and/or improvement of landscaping, street hardware, street signs, overhead power lines, walkways, trails, transit facilities and public art.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	31.1	-	-	-	-	31.1
Bond 2000	3,647.8	-	-	-	-	3,647.8
Transportation 0.2% Sales Tax	191.0	-	-	-	-	191.0
<b>Total:</b>	<b>3,869.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,869.9</b>

**Scottsdale's Museum of the West - (DB55)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 13,484.1                      **Total Project Cost:** 13,600.0

**Location:** Second Street and Marshall Way

**Project Type:** Construction Related

**Description:** Construction of a 40,000 square foot museum and sculpture garden. Scottsdale's Museum of the West will provide a unique visitor experience of western United States art and culture from 1820 to 1920 in downtown Scottsdale. The museum and adjoining sculpture garden will provide storytelling opportunities reinforced by related southwestern artwork and artifacts. It will be a cultural destination for residents and visitors.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	199.1	-	-	-	-	199.1
Tourism Development Funds	(83.2)	-	-	-	-	(83.2)
<b>Total:</b>	<b>115.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>115.9</b>

**SkySong - ASU Scottsdale Center for Innovation - Art Component - (DC03)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 477.5

**Location:** Southeast corner of Scottsdale Road and McDowell Road

**Project Type:** Construction Related

**Description:** Provide an art component, as part of the city's lease responsibility with the Arizona State University Foundation (ASUF), to provide infrastructure to support site development.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	477.5	-	-	-	-	477.5
<b>Total:</b>	<b>477.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>477.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Tony Nelssen Equestrian Center Expansion - (DB54)****Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 46,109.4      **Total Project Cost:** 46,620.0**Location:** WestWorld**Project Type:** Construction Related**Description:** Design and construction of an expansion of the Tony Nelssen Equestrian Center to a final configuration of approximately 300,000 square feet of climate-controlled enclosed space. The facility will house the existing arena with additional areas to accommodate multiple uses, including arenas or temporary stalls for equestrian use, space to accommodate the Barrett-Jackson Auto Auction and the potential to support other public entertainment events.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	468.9	-	-	-	-	468.9
Tourism Development Funds	41.7	-	-	-	-	41.7
<b>Total:</b>	<b>510.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>510.6</b>

**TPC Golf Course Water Stations - (PC04)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 270.0**Location:** Tournament Player's Club (TPC) Scottsdale, 17020 North Hayden Road**Project Type:** Construction Related**Description:** Design and construct up to six water and ice stations throughout the TPC golf course.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	50.0	-	-	-	-	50.0
Tournament Player's Club Basin	220.0	-	-	-	-	220.0
<b>Total:</b>	<b>270.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>270.0</b>

**WestWorld Tent Removal - (DD03)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 700.0**Location:** WestWorld**Project Type:** Construction Related**Description:** Civil restorations and electrical relocations associated with dismantling the city tent. Restoration includes asphalt patching and capping existing water lines. Electrical relocations include relocating existing above ground facilities and extending existing electrical facilities.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	700.0	-	-	-	-	700.0
<b>Total:</b>	<b>700.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Indian Bend Wash Lakes Phase I - (PB63) ①**

**Est. Completion:** 03/17      **ITD Expenditures (Thru 03/16):** 353.7      **Total Project Cost:** 3,240.0

**Location:** Hayden Road and Indian School Road

**Project Type:** Construction Related

**Description:** Renovate the Indian Bend Wash Lake at Indian School Park. The primary function of this lake is for watering the turf areas of the parks as well as providing recreational opportunities and wildlife habitats. The renovations include repair of erosion damage, prevention of water loss and safety enhancements.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	2,886.3	-	-	-	-	2,886.3
<b>Total:</b>	<b>2,886.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,886.3</b>

**McCormick Park Reservoir Removal - (PD03)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,037.7

**Location:** McCormick Stillman Railroad Park

**Project Type:** Construction Related

**Description:** Abandonment of the existing water reservoir and construction of additional parking within the McCormick Stillman Park parking lot.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	1,037.7	-	-	-	-	1,037.7
<b>Total:</b>	<b>1,037.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,037.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Paiute Park Playground and Rehabilitation - (PB70)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 29.9      **Total Project Cost:** 118.0

**Location:** Paiute Park, 3210 North 66th Street

**Project Type:** Construction Related

**Description:** Reconstruct the existing playground equipment at Paiute Park to update and ensure Americans with Disabilities Act (ADA) compliance.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	5.1	-	-	-	-	5.1
CDBG	83.0	-	-	-	-	83.0
<b>Total:</b>	<b>88.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>88.1</b>

**Papago Park Playground Rehabilitation - (PB69)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 28.4      **Total Project Cost:** 137.0

**Location:** Papago Rotary Park, 7613 East Garfield Street

**Project Type:** Construction Related

**Description:** Reconstruct the existing playground equipment at Papago Park to update and ensure Americans with Disabilities Act (ADA) compliance.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	18.6	-	-	-	-	18.6
CDBG	90.0	-	-	-	-	90.0
<b>Total:</b>	<b>108.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>108.6</b>

**Renovate Vista del Camino Park/Indian Bend Wash Area - (TEMP1749)**

**Est. Completion:** 11/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 18,464.3

**Location:** Vista del Camino lakes from McKellips Road to Thomas Road

**Project Type:** Construction Related

**Description:** Reconstruct the Vista del Camino lakes including new irrigation, pumping systems, lane edges and liners. Improve park amenities including an upgraded turf irrigation system, multi-use paths, restroom building, ramadas and playgrounds.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	-	18,464.3	-	-	-	18,464.3
<b>Total:</b>	<b>-</b>	<b>18,464.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18,464.3</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Scottsdale Stadium & Indian School Park Scoreboards - (PC02)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.1      **Total Project Cost:** 156.0  
**Location:** Scottsdale Stadium and Indian School Park  
**Project Type:** Construction Related  
**Description:** Install a new LED scoreboard for the Scottsdale Stadium and a new basic line scoreboard at the Indian School Park training facility.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	6.0	-	-	-	-	6.0
Stadium Improvement IGA	149.9	-	-	-	-	149.9
<b>Total:</b>	<b>155.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>155.9</b>

**Scottsdale Stadium Infrastructure Improvements - (PB57)**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 295.7      **Total Project Cost:** 1,917.8  
**Location:** Scottsdale Stadium  
**Project Type:** Construction Related  
**Description:** Lifecycle maintenance and replacement of aging building components in the Stadium.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	1.6	-	-	-	-	1.6
Stadium Improvement IGA	811.7	202.2	202.2	202.2	202.2	1,620.5
<b>Total:</b>	<b>813.3</b>	<b>202.2</b>	<b>202.2</b>	<b>202.2</b>	<b>202.2</b>	<b>1,622.1</b>

**Scottsdale Stadium Masterplan - (PC03)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.2      **Total Project Cost:** 264.0  
**Location:** City of Scottsdale  
**Project Type:** Construction Related  
**Description:** Creation of a masterplan for the future upgrades, expansion and growth of the Scottsdale Stadium.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	14.0	-	-	-	-	14.0
Stadium Improvement IGA	249.8	-	-	-	-	249.8
<b>Total:</b>	<b>263.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>263.8</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Scottsdale Stadium Safety Repairs & Maintenance - (PD02)**

**Est. Completion:** 06/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,789.0

**Location:** Scottsdale Stadium

**Project Type:** Construction Related

**Description:** Renovate and improve various areas in the Scottsdale Stadium to improve safety. Included are the renovation of concrete walkways, replacement of concrete tree grates and improvement of general lighting in all concourses and pedestrian walkways.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	1,249.5	539.5	-	-	-	1,789.0
<b>Total:</b>	<b>1,249.5</b>	<b>539.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,789.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



FY 2016/17 Adopted Budget



# Existing Condition



# 3rd Avenue and Craftsman Court Drainage



# Post Construction Condition

# Project Descriptions

(In thousands of dollars)

## Drainage / Flood Control

Drainage/Flood Control focuses on protecting a diverse, family-oriented community where neighborhoods are safe and well maintained by preventing property damage from flooding. This program achieves these goals through flood plain mapping, meeting regulatory requirements, and identifying and correcting hazards to reduce future flood damage potential. This is accomplished through the use of detention basins, culvert and channel projects, and a program of neighborhood drainage improvements. Approximately 2.9 percent (\$18.8 million) of the CIP has been identified to address the drainage and flood control needs of the city.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Drainage / Flood Control</b>							
<b>Drainage / Flood Control</b>							
Granite Reef Watershed (FB50)	14,425.7	1,248.0	1,712.0	28,160.4	-	45,546.1	50
Loop 101 Detention Basin (FB53)	691.1	-	-	-	-	691.1	50
* Neighborhood Stormwater Management Improvements (YC05)	67.0	-	-	-	-	67.0	51
* Neighborhood Stormwater Management Improvements (YD05)	75.0	75.0	75.0	75.0	75.0	375.0	51
Paradise Drive Storm Drain (FB57)	272.2	-	-	-	-	272.2	51
Pinnacle Vista / Cavalliere Flat Culvert (FC02)	193.1	-	-	-	-	193.1	51
Princess Drive Drainage Project (FC01)	1,082.6	-	-	325.0	-	1,407.6	52
Reata Wash Flood Control (FB55)	502.9	-	-	-	-	502.9	52
Upper Camelback Wash Watershed (FB51)	1,483.4	-	-	-	-	1,483.4	53

\*Recurring Capital Maintenance Projects.

**Granite Reef Watershed - (FB50)**

**Est. Completion:** 06/20                      **ITD Expenditures (Thru 03/16):** 5,509.6                      **Total Project Cost:** 51,055.7

**Location:** Chaparral Road to the Salt River, Granite Reef Road to Pima Road

**Project Type:** Construction Related

**Description:**

Provide 100-year flood protection and eliminate the existing Federal Emergency Management Agency (FEMA) AE zone designation (area subject to inundation by the 1 percent annual chance flood event), which carries a need for mandatory flood insurance for the structures in the Granite Reef Wash corridor between Thomas Road and McKellips Road. This major project will likely be constructed in two phases: Phase 1 is from Jackrabbit Road to Indian School Road; and Phase 2 is from south of Indian School Road to the Salt River.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	6,938.6	-	-	-	-	6,938.6
Bond 2000	3,310.8	-	-	-	-	3,310.8
Flood Control District IGA	1,000.3	780.0	1,070.0	18,689.4	-	21,539.7
Salt River Pima Maricopa Indian Community IGA	3,176.0	468.0	642.0	9,471.0	-	13,757.0
<b>Total:</b>	<b>14,425.7</b>	<b>1,248.0</b>	<b>1,712.0</b>	<b>28,160.4</b>	<b>-</b>	<b>45,546.1</b>

**Loop 101 Detention Basin - (FB53) ①**

**Est. Completion:** 12/18                      **ITD Expenditures (Thru 03/16):** 1,782.2                      **Total Project Cost:** 2,473.3

**Location:** North of Loop 101 and west of Pima Road

**Project Type:** Construction Related

**Description:** Construct a stormwater detention basin on a 52-acre site north of the Loop 101 Freeway, west of Pima Road and south of the Water Campus to protect lands south of the freeway from the 100-year flood. The detention basin will provide short-term storage of stormwater originating from areas north and east of the site and allow for a non-damaging release of the flows to the Bureau of Reclamation basin at the Tournament Players Club (TPC).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	234.2	-	-	-	-	234.2
Flood Control District IGA	456.9	-	-	-	-	456.9
<b>Total:</b>	<b>691.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>691.1</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Neighborhood Stormwater Management Improvements - (YC05) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 8.0                      **Total Project Cost:** 75.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provide miscellaneous as-needed drainage improvements throughout the city that address localized drainage and flooding problems.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Stormwater In-Lieu Fees	67.0	-	-	-	-	67.0
<b>Total:</b>	<b>67.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>67.0</b>

**Neighborhood Stormwater Management Improvements - (YD05) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 375.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provide miscellaneous as-needed drainage improvements throughout the city that address localized drainage and flooding problems.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Stormwater In-Lieu Fees	75.0	75.0	75.0	75.0	75.0	375.0
<b>Total:</b>	<b>75.0</b>	<b>75.0</b>	<b>75.0</b>	<b>75.0</b>	<b>75.0</b>	<b>375.0</b>

**Paradise Drive Storm Drain - (FB57)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 140.8                      **Total Project Cost:** 413.0  
**Location:** 6701 East Paradise Drive  
**Project Type:** Construction Related  
**Description:** Construct drainage improvements on Paradise Drive from 67th Street to 68th Street.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Flood Control District IGA	211.9	-	-	-	-	211.9
Stormwater In-Lieu Fees	60.3	-	-	-	-	60.3
<b>Total:</b>	<b>272.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>272.2</b>

**Pinnacle Vista / Cavalliere Flat Culvert - (FC02)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 6.9                      **Total Project Cost:** 200.0  
**Location:** Pinnacle Vista Drive east of Alma School Parkway  
**Project Type:** Construction Related  
**Description:** The City of Scottsdale's share of the costs to construct a culvert to adequately convey stormwater flows from the lower detention basin at Cavalliere Park under Pinnacle Vista Drive.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	193.1	-	-	-	-	193.1
<b>Total:</b>	<b>193.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>193.1</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Princess Drive Drainage Project - (FC01)**

**Est. Completion:** 06/20      **ITD Expenditures (Thru 03/16):** 17.4      **Total Project Cost:** 1,425.0  
**Location:** Princess Drive east of Scottsdale Road  
**Project Type:** Construction Related

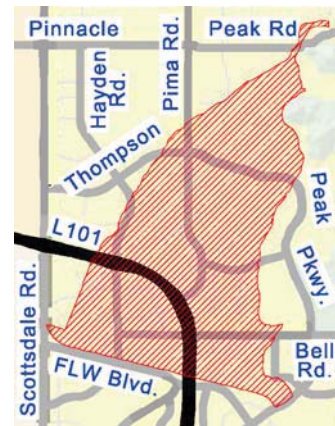


**Description:** Analyze the drainage that is conveyed through the existing box culvert under Princess Drive east of Scottsdale Road. Design and construct modifications to enhance the flow under Princess Drive to reduce sedimentation within the structure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Contributions	1,082.6	-	-	325.0	-	1,407.6
<b>Total:</b>	<b>1,082.6</b>	<b>-</b>	<b>-</b>	<b>325.0</b>	<b>-</b>	<b>1,407.6</b>

**Reata Wash Flood Control - (FB55)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 753.1      **Total Project Cost:** 1,256.0  
**Location:** Reata Wash  
**Project Type:** Construction Related



**Description:** Completion of a study to recommend options to reduce and remove the potential flood hazard that affects the area north of the Central Arizona Project Canal known as the Reata Wash alluvial fan.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	502.9	-	-	-	-	502.9
<b>Total:</b>	<b>502.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>502.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Upper Camelback Wash Watershed - (FB51)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 16,246.6      **Total Project Cost:** 17,730.0

**Location:** Bounded by Sweetwater Avenue on the north; 96th Place on the east; Shea Boulevard on the south and 90th Street on the west.

**Project Type:** Construction Related

**Description:** Construct drainage channel improvements and new storm drains and several detention basins. The project will be constructed in two phases: Phase 1 is south of Cactus Road and Phase 2 is north of Cactus Road.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	18.5	-	-	-	-	18.5
Bond 2000	1,007.7	-	-	-	-	1,007.7
Flood Control District IGA	457.2	-	-	-	-	457.2
<b>Total:</b>	<b>1,483.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,483.4</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

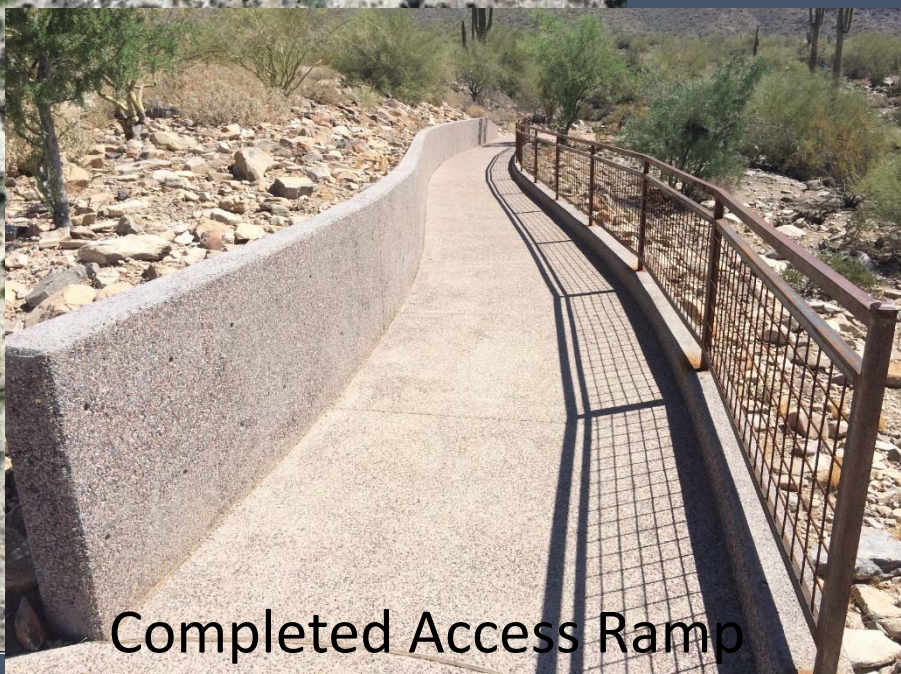


FY 2016/17 Adopted Budget

# Kovach Family Nature Trail @ Lost Dog Wash Trailhead.



Access Ramp Construction



Completed Access Ramp



# Project Descriptions

(In thousands of dollars)

## Preservation

Preservation focuses on preserving the character and environment of Scottsdale. This goal is met by land acquisition activities for the McDowell Sonoran Preserve for the purpose of maintaining scenic views, preserving native plants and wildlife, and providing public access to the McDowell Mountains and Sonoran Desert. The 1998 election expanded the recommended study boundary from the original 12,876 acres to about 34,000 acres. The 2004 election provided an additional revenue stream (0.15 percent sales tax rate increase) as well as the bonding capacity (\$500.0 million) that continues to provide authority to carry on preservation efforts. Approximately 28.3 percent (\$181.5 million) of the CIP has been identified to address this program.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Preservation</b>							
<b>Preservation/Preservation Improvements</b>							
Central Area Trail Construction (DB52)	462.9	-	-	-	-	462.9	56
Desert Discovery Center Business Plan & Feasibility Analysis (DC02)	1,647.3	-	-	-	-	1,647.3	56
Expanded McDowell Sonoran Preserve (PB66)	168,129.4	-	-	-	-	168,129.4	56
Fraesfield and Granite Mountain Trailheads (PD04)	3,000.0	3,000.0	1,000.0	-	-	7,000.0	57
North and Central Area Access Control & Stabilization (PB54)	1,964.4	100.0	100.0	100.0	100.0	2,364.4	57
North Area Trail Construction (PB50)	1,391.2	100.0	100.0	100.0	100.0	1,791.2	57
Pima/Dynamite Trailhead (PB65)	4,000.0	500.0	-	-	-	4,500.0	58
Preserve Trail, Habitat & Safety Improvements (PB52)	122.9	30.0	30.0	30.0	30.0	242.9	58
South Area Access Control (PB61)	165.4	150.0	150.0	150.0	150.0	765.4	58
South Area Trail Construction (PB51)	579.6	-	-	-	-	579.6	59

\*Recurring Capital Maintenance Projects.

**Central Area Trail Construction - (DB52)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 409.6                      **Total Project Cost:** 872.5  
**Location:** Various planned trail locations in the central area of the McDowell Sonoran Preserve  
**Project Type:** Construction Related  
**Description:** Construct various multiuse trails in the central preserve (approximately 10 miles of trails). These multiuse trails are identified in the Master Trails Plan for the Preserve recommended by the McDowell Sonoran Preserve Commission and approved by City Council.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	462.9	-	-	-	-	462.9
<b>Total:</b>	<b>462.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>462.9</b>

**Desert Discovery Center Business Plan & Feasibility Analysis - (DC02)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 49.6                      **Total Project Cost:** 1,696.9  
**Location:** City of Scottsdale  
**Project Type:** Construction Related  
**Description:** Develop programming and planning for the potential future Desert Discovery Center that will include a schematic architectural design and a business plan.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Tourism Development Funds	1,647.3	-	-	-	-	1,647.3
<b>Total:</b>	<b>1,647.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,647.3</b>

**Expanded McDowell Sonoran Preserve - (PB66)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 137.6                      **Total Project Cost:** 168,267.0  
**Location:** McDowell Mountain Preserve  
**Project Type:** Construction Related  
**Description:** Purchase Preserve land within the estimated 34,000 acre planned Preserve boundary, as approved by the voters in May 1995 and November 1998.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
G.O. Preserve Bonds	167,859.8	-	-	-	-	167,859.8
Preserve Sales Tax 2004 (0.15)	269.6	-	-	-	-	269.6
<b>Total:</b>	<b>168,129.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>168,129.4</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Fraesfield and Granite Mountain Trailheads - (PD04)**

**Est. Completion:** 12/20      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 7,000.0

**Location:** Dynamite Boulevard and 134th Street, and Lone Mountain and 136th Street

**Project Type:** Construction Related

**Description:**

Construct amenities including driveway, parking, shade ramadas, restrooms, interpretative materials, mountain climbing staging, equestrian amenities, storage and other infrastructure improvements to serve passive recreational users at the north community access areas in the McDowell Sonoran Preserve. These access areas will serve as staging area for exploration of the Preserve through connection to the existing and planned citywide trail system both in and outside of the Preserve.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	3,000.0	3,000.0	1,000.0	-	-	7,000.0
<b>Total:</b>	<b>3,000.0</b>	<b>3,000.0</b>	<b>1,000.0</b>	<b>-</b>	<b>-</b>	<b>7,000.0</b>

**North and Central Area Access Control & Stabilization - (PB54)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 1,535.6      **Total Project Cost:** 3,900.0

**Location:** In vicinity of Pima Road, 136th Street, Dynamite Boulevard and Stagecoach Road

**Project Type:** Construction Related

**Description:** Stabilize, plan and improve several existing, informal trail access points in the northern region of the McDowell Sonoran Preserve. The project will include stabilization of entry roads, and the installation of gates, fencing and signage as required around the perimeter of the central and northern region of the Preserve.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	1,964.4	100.0	100.0	100.0	100.0	2,364.4
<b>Total:</b>	<b>1,964.4</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>2,364.4</b>

**North Area Trail Construction - (PB50)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 1,408.8      **Total Project Cost:** 3,200.0

**Location:** Granite Mountain area north of Dynamite Boulevard west of 136th Street

**Project Type:** Construction Related

**Description:** Eradicate unwanted trails and restoration of the area where these unwanted trails were located. Approximately two-thirds of the existing trails in the area will be eliminated and the land restored through this project. Improve the remaining one-third of the existing trails, which are included in the Conceptual Trails Plan for the Preserve recommended by the McDowell Sonoran Preserve Commission and approved by City Council.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	1,391.2	100.0	100.0	100.0	100.0	1,791.2
<b>Total:</b>	<b>1,391.2</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>1,791.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Pima/Dynamite Trailhead - (PB65)**

**Est. Completion:** 12/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 4,500.0

**Location:** Northeast of Pima Road and Dynamite Boulevard

**Project Type:** Construction Related

**Description:** This project is for the construction of amenities including driveway, parking, shade ramadas, restrooms, small amphitheater, interpretative materials, equestrian amenities, storage and other infrastructure improvements to serve passive recreational users at a major north community access area in the McDowell Sonoran Preserve. This access area will serve as a staging area for exploration of the Preserve through connection to the existing and planned citywide trail system both in and outside of the Preserve.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	4,000.0	500.0	-	-	-	4,500.0
<b>Total:</b>	<b>4,000.0</b>	<b>500.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,500.0</b>

**Preserve Trail, Habitat & Safety Improvements - (PB52)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 64.1      **Total Project Cost:** 307.0

**Location:** McDowell Sonoran Preserve

**Project Type:** Construction Related

**Description:** Reconstruct segments of trails within the McDowell Sonoran Preserve. Many of these trails were built 5 to 6 years ago, in areas of rugged terrain. Accordingly, some of these trail segments require re-routing and/or reconstruction, beyond the scope of routine maintenance. Improvements may involve, but not be limited to trail construction, trail signage and various safety enhancements to old mining areas/shafts to remove or mitigate hazard conditions.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	122.9	30.0	30.0	30.0	30.0	242.9
<b>Total:</b>	<b>122.9</b>	<b>30.0</b>	<b>30.0</b>	<b>30.0</b>	<b>30.0</b>	<b>242.9</b>

**South Area Access Control - (PB61)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 1,034.6      **Total Project Cost:** 1,800.0

**Location:** Preserve areas generally South of the Deer Valley alignment

**Project Type:** Construction Related

**Description:** Stabilize and improve various existing Trailheads in the southern region of the McDowell Sonoran Preserve and the future expansion of the Gateway and Lost Dog Wash Trailhead parking lots. The Ringtail Trailhead is located north of Cactus Road, along the western edge of 128th Street, and the 104th Street/Bell Road Trailhead is located immediately north of Bell Road at the 104th Street alignment. Both of these trailheads are existing facilities with gravel or dirt parking surfaces and limited improvements. The project will assess current use and as appropriate provide a durable parking surface that reduces maintenance costs, eliminates particulate air pollution caused by dust, improves compliance with clean air regulations, and better facilitates storm water management on the site. Additionally, transitions to adjacent roadways will be assessed and may include revision of alignments, installation of gate(s), fencing, signage, trash cans, and other trailhead amenities. The Gateway and Lost Dog Wash expansions will consider increasing usage at the trailheads and per previously developed concept plans, provide up to 200 additional parking stalls for each of the Trailheads.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	165.4	150.0	150.0	150.0	150.0	765.4
<b>Total:</b>	<b>165.4</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>765.4</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**South Area Trail Construction - (PB51)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 410.4                      **Total Project Cost:** 990.0

**Location:** A north-south corridor in the interior of the McDowell Mountains portion of the McDowell Sonoran Preserve

**Project Type:** Construction Related

**Description:** Construct a remote, interior, secondary, multiuse trail connecting existing trails in the south part of the Preserve to existing trails in the central area of the Preserve along a north-south corridor. This multiuse trail is identified in the Master Trails Plan for the Preserve recommended by the McDowell Sonoran Preserve Commission and approved by City Council.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Preserve Sales Tax 2004 (0.15)	579.6	-	-	-	-	579.6
<b>Total:</b>	<b>579.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>579.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



FY 2016/17 Adopted Budget



Scottsdale Fire Station #613  
26380 North Hayden Road  
Scottsdale, Arizona

# Project Descriptions

(In thousands of dollars)

## Public Safety

Public Safety programs focus on enhancing and protecting a diverse, family-oriented community where neighborhoods are safe. This goal is met by providing fire and police stations, training facilities and automation systems related to fire and police operations. Approximately 3.2 percent (\$20.2 million) of the CIP has been identified to address the public safety needs of the city.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Public Safety</b>							
<b>Fire Protection</b>							
Fire Station 603 Relocation (BC04)	6,870.0	-	-	-	-	6,870.0	62
Fire Station 613 Construction (BC02)	5,262.3	-	-	-	-	5,262.3	62
Fire Station 613 Design (BB52)	461.9	-	-	-	-	461.9	63
Fire Station 616 Design and Construction (BC03)	3,789.9	-	-	-	-	3,789.9	63
Public Safety Radio Network Lifecycle Project (JD02)	151.8	1,299.8	151.8	151.8	151.8	1,907.0	64
Renovate Fire Station 605 (BC05)	828.0	-	-	-	-	828.0	64
<b>Police</b>							
9-1-1 Communication Equipment Replacement (JB51)	72.3	-	-	-	-	72.3	65
9-1-1 Voice Logging Recorder Replacement (MB60)	30.9	-	-	-	-	30.9	65
Additional Servers for Digital Evidence and Forensic Recovery (JB63)	31.9	-	-	-	-	31.9	65
Advanced Mobile Solutions (JB61)	105.7	-	-	-	-	105.7	66
Cameras & Communication Equipment for Special Events and Surveillance Investigations (JB60)	46.2	-	-	-	-	46.2	66
Closed Circuit Television (CCTV)(Security Camera System) and Access Control Replacement (JD05)	781.6	359.7	407.7	239.8	239.8	2,028.6	66
Crime Lab Latent Print Comparison and AFIS Room (JD06)	118.7	-	-	-	-	118.7	67
* Crime Laboratory Equipment Replacement (YC03)	125.7	-	-	-	-	125.7	67
* Crime Laboratory Equipment Replacement (YD03)	234.4	239.8	334.6	294.3	288.9	1,392.0	67
Lab Information Management System (LIMS) Integration (MB62)	112.1	-	-	-	-	112.1	68
* Police Portable & Vehicle Radio Replacement (YC06)	23.4	-	-	-	-	23.4	68
* Police Portable & Vehicle Radio Replacement (YD06)	100.8	1,144.5	1,144.5	991.9	991.9	4,373.6	68
* Police Portable and Vehicle Radio Replacement (YB68)	111.6	-	-	-	-	111.6	69
Policy & Standards Management Software (MB63)	47.9	-	-	-	-	47.9	69
Public Safety Radio System - Phase I - Final Conversion (MC01)	501.0	-	-	-	-	501.0	69
Records Management System & Computer Aided Dispatch Enhancements and Refresh (JB62)	395.7	-	-	-	-	395.7	70

\*Recurring Capital Maintenance Projects.



**Fire Station 603 Relocation - (BC04)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 10.6                      **Total Project Cost:** 6,880.6

**Location:** McCormick Ranch area

**Project Type:** Construction Related

**Description:** Purchase land, design and construct a new Fire Station in the McCormick Ranch area, replacing the existing Fire Station 603, and improving response times to that portion of the city. The new station will include crew quarters and facilities, office space, Occupational Safety and Health Administration (OSHA) certified decontamination area, safety gear storage and an apparatus bay.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	130.6	-	-	-	-	130.6
2015 GO Bond - Q5 - Public Safety Fire	6,739.4	-	-	-	-	6,739.4
<b>Total:</b>	<b>6,870.0</b>	-	-	-	-	<b>6,870.0</b>

**Fire Station 613 Construction - (BC02)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 5,262.3

**Location:** Desert Foothills area at Jomax and Hayden Roads

**Project Type:** Construction Related

**Description:** Construct a new fire station to replace a temporary modular facility in the Desert Foothills area at Jomax and Hayden Roads. The new station will include crew quarters and facilities, office space, Occupational Safety and Health Administration (OSHA) certified decontamination area, safety gear storage and an apparatus bay.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	162.3	-	-	-	-	162.3
2015 GO Bond - Q5 - Public Safety Fire	5,100.0	-	-	-	-	5,100.0
<b>Total:</b>	<b>5,262.3</b>	-	-	-	-	<b>5,262.3</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Fire Station 613 Design - (BB52)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 261.7      **Total Project Cost:** 723.6

**Location:** Hayden Road and Jomax Road, southeast corner

**Project Type:** Construction Related

**Description:**

Design a 9,000 square foot fire station to include crew quarters and facilities, office space, Occupational Safety and Health Administration (OSHA) certified decontamination area, safety gear storage and triple apparatus bay. This fire station will serve the Desert Foothills area.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	271.0	-	-	-	-	271.0
Bond 2000	190.9	-	-	-	-	190.9
<b>Total:</b>	<b>461.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>461.9</b>

**Fire Station 616 Design and Construction - (BC03)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 5.4      **Total Project Cost:** 3,795.3

**Location:** 110th Street and Cave Creek Road

**Project Type:** Construction Related

**Description:**

Construct a new fire station to replace a temporary facility at 110th Street and Cave Creek Road. The new station will include crew quarters and facilities, office space, Occupational Safety and Health Administration (OSHA) certified decontamination area, safety gear storage and an apparatus bay.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	95.3	-	-	-	-	95.3
2015 GO Bond - Q5 - Public Safety Fire	3,694.6	-	-	-	-	3,694.6
<b>Total:</b>	<b>3,789.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,789.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Public Safety Radio Network Lifecycle Project - (JD02)**

**Est. Completion:** 08/21      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,907.0

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Fulfill a federal mandate to shift to narrowband frequencies and also pay for lifecycle costs on the valley-wide regional radio system. These funds represent Scottsdale's portion of the upgrade.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	151.8	1,299.8	151.8	151.8	151.8	1,907.0
<b>Total:</b>	<b>151.8</b>	<b>1,299.8</b>	<b>151.8</b>	<b>151.8</b>	<b>151.8</b>	<b>1,907.0</b>

**Renovate Fire Station 605 - (BC05)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 828.0

**Location:** 75th Street and Shea Boulevard

**Project Type:** Construction Related

**Description:** Improve the bathrooms, locker rooms, bunk rooms and kitchen in Fire Station 605 that was built in 1983. The renovated apparatus bay area will also include Occupational Safety and Health Administration (OSHA) certified decontamination room and personal protective equipment storage.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	28.0	-	-	-	-	28.0
2015 GO Bond - Q5 - Public Safety Fire	800.0	-	-	-	-	800.0
<b>Total:</b>	<b>828.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>828.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**9-1-1 Communication Equipment Replacement - (JB51)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,056.0      **Total Project Cost:** 1,128.3**Location:** Citywide**Project Type:** Technology Related**Description:** Purchase and install new 9-1-1 radio dispatch equipment.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	76.1	-	-	-	-	76.1
RICO	(3.8)	-	-	-	-	(3.8)
<b>Total:</b>	<b>72.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>72.3</b>

**9-1-1 Voice Logging Recorder Replacement - (MB60)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 209.8      **Total Project Cost:** 240.7**Location:** Citywide**Project Type:** Technology Related**Description:** Replace the 9-1-1 voice logging recorder so that the Police Department can maintain the expected level of service to the public and provide continuous recording of voice communications and police activity.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	3.4	-	-	-	-	3.4
RICO	27.5	-	-	-	-	27.5
<b>Total:</b>	<b>30.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30.9</b>

**Additional Servers for Digital Evidence and Forensic Recovery - (JB63)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 138.2      **Total Project Cost:** 170.1**Location:** Citywide**Project Type:** Technology Related**Description:** Purchase a Computer Crimes Unit server and four forensic recovery of evidence work stations.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	12.4	-	-	-	-	12.4
RICO	19.5	-	-	-	-	19.5
<b>Total:</b>	<b>31.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>31.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Advanced Mobile Solutions - (JB61)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 105.7  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Purchase of Advanced Mobile Solutions including Citrix & NetMotion expansion, related licensing, new Advanced Authentication requirements and mobile computing solutions.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	8.7	-	-	-	-	8.7
RICO	97.0	-	-	-	-	97.0
<b>Total:</b>	<b>105.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>105.7</b>

**Cameras & Communication Equipment for Special Events and Surveillance Investigations - (JB60)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 106.4      **Total Project Cost:** 152.6  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Purchase wireless special event security camera system. The security camera equipment will be used for temporary deployment at major special events. The equipment will aid the Scottsdale Police Department with the overall management, safety and security of events that attract large numbers of people to Scottsdale. Real-time video will be transmitted to the local event command post as well as the city and Police Department Emergency Operations Centers.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	6.0	-	-	-	-	6.0
RICO	40.2	-	-	-	-	40.2
<b>Total:</b>	<b>46.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>46.2</b>

**Closed Circuit Television (CCTV)(Security Camera System) and Access Control Replacement - (JD05)**

**Est. Completion:** 06/24      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 2,028.6  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Replace non-functioning Closed Circuit Television (CCTV) security equipment.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	583.6	359.7	407.7	239.8	239.8	1,830.6
Court Enhancement Funds	198.0	-	-	-	-	198.0
<b>Total:</b>	<b>781.6</b>	<b>359.7</b>	<b>407.7</b>	<b>239.8</b>	<b>239.8</b>	<b>2,028.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Crime Lab Latent Print Comparison and AFIS Room - (JD06)**

**Est. Completion:** 01/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 118.7

**Location:** Forensic Laboratory 7601 B East McKellips Road

**Project Type:** Construction Related

**Description:** Repurpose an area of the Crime Lab for a Latent Print comparison section for four examiners. Natural light is essential for the examination of latent prints, this new location offers this feature. The current space used by these examiners offers no natural light and is extremely cramped because it was built for two employees.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	9.1	-	-	-	-	9.1
Crime Lab Assessment	109.6	-	-	-	-	109.6
<b>Total:</b>	<b>118.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>118.7</b>

**Crime Laboratory Equipment Replacement - (YC03) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 16.0      **Total Project Cost:** 141.7

**Location:** Police - District 1

**Project Type:** Technology Related

**Description:** Replace aging and obsolete crime laboratory equipment and instrumentation that has reached or exceeded its manufacturer's life expectancy. Past history has shown that this equipment and instrumentation has a useful life expectancy of between 5 to 8 years before it starts to incur significant maintenance issues and its technology becomes outdated. Using outdated technology becomes a reliability issue when presenting examination results in court. With newer technology, examination time can be reduced and forensic examination results can become available more quickly to the officer and the courts.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	91.4	-	-	-	-	91.4
Crime Lab Assessment	5.0	-	-	-	-	5.0
Forensic Science IGAs	29.3	-	-	-	-	29.3
<b>Total:</b>	<b>125.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>125.7</b>

**Crime Laboratory Equipment Replacement - (YD03) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,392.0

**Location:** Police - District 1

**Project Type:** Technology Related

**Description:** Replace aging and obsolete crime laboratory equipment and instrumentation that has reached or exceeded its manufacturer's life expectancy. Past history has shown that this equipment and instrumentation has a useful life expectancy of between 5 to 8 years before it starts to incur significant maintenance issues and its technology becomes outdated. Using outdated technology becomes a reliability issue when presenting examination results in court. With newer technology, examination time can be reduced and forensic examination results can become available more quickly to the officer and the courts.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	210.4	219.8	314.6	274.3	268.9	1,288.0
Crime Lab Assessment	4.0	-	-	-	-	4.0
Forensic Science IGAs	20.0	20.0	20.0	20.0	20.0	100.0
<b>Total:</b>	<b>234.4</b>	<b>239.8</b>	<b>334.6</b>	<b>294.3</b>	<b>288.9</b>	<b>1,392.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Lab Information Management System (LIMS) Integration - (MB62)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 112.1

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Purchase programming and integration services from Intergraph and JusticeTrax that will allow the exchange of Intergraph/Law Enforcement Automated Database Systems (I/LEADS) property data with the JusticeTrax Lab Information Services (LIMS). Electronic transmission of the data between the two systems will automate the exchange of information, reduce administrative time by eliminating redundant data entry into LIMS, reduce the possibility of data entry errors and increase the timeliness of lab requests, processing and lab results posting back to the officer and into the I/LEADS incident. Efficient property handling and timely testing will expedite the prosecution and adjudication of criminal cases.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	9.3	-	-	-	-	9.3
RICO	102.8	-	-	-	-	102.8
<b>Total:</b>	<b>112.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>112.1</b>

**Police Portable & Vehicle Radio Replacement - (YC06) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 433.3                      **Total Project Cost:** 456.7

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Establish a replacement cycle for police portable and vehicle radios. Portable radios are on a 7-year replacement plan and vehicle radios are on a 10-year replacement plan.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	23.4	-	-	-	-	23.4
<b>Total:</b>	<b>23.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>23.4</b>

**Police Portable & Vehicle Radio Replacement - (YD06) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 4,373.6

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Establish a replacement cycle for police portable and vehicle radios. Portable radios are on a 7-year replacement plan and vehicle radios are on a 10-year replacement plan.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	100.8	1,144.5	1,144.5	991.9	991.9	4,373.6
<b>Total:</b>	<b>100.8</b>	<b>1,144.5</b>	<b>1,144.5</b>	<b>991.9</b>	<b>991.9</b>	<b>4,373.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Police Portable and Vehicle Radio Replacement - (YB68) ②****Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 710.2      **Total Project Cost:** 821.8**Location:** Citywide**Project Type:** Technology Related**Description:** Establish a replacement cycle for police portable and vehicle radios. Portable radios are on a 7-year replacement plan and vehicle radios are on a 10-year replacement plan.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	111.6	-	-	-	-	111.6
<b>Total:</b>	<b>111.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>111.6</b>

**Policy & Standards Management Software - (MB63)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 47.9**Location:** Citywide**Project Type:** Technology Related**Description:** Purchase new software that will allow the Police Department to track policy and procedure changes and accreditation standards compliance.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	3.9	-	-	-	-	3.9
RICO	44.0	-	-	-	-	44.0
<b>Total:</b>	<b>47.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47.9</b>

**Public Safety Radio System - Phase I - Final Conversion - (MC01)****Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 501.0**Location:** Citywide**Project Type:** Technology Related**Description:** Final conversion related to the purchase a new radio system that provides improved coverage, interoperability with other public safety agencies, and increased bandwidth to handle growth in radio voice traffic.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	501.0	-	-	-	-	501.0
<b>Total:</b>	<b>501.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>501.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.



**Records Management System & Computer Aided Dispatch Enhancements and Refresh - (JB62)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 395.7

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Provide vendor specific feature enhancements to improve the Computer Aided Dispatch system, Records Management System and Mobile for Public Safety systems.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	32.7	-	-	-	-	32.7
RICO	363.0	-	-	-	-	363.0
<b>Total:</b>	<b>395.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>395.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



# Project Descriptions

(In thousands of dollars)

## Service Facilities

Service Facilities focus on coordinating land use and infrastructure planning within the context of financial demands and available resources. These programs achieve this goal through the renovation of current facilities and technology needs necessary for the efficient and effective operations of the city. Approximately 2.7 percent (\$17.1 million) of the CIP has been identified to address this program.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Service Facilities</b>							
<b>Municipal Facilities/Improvements</b>							
Additional Compressed Natural Gas (CNG) Fuel Dispensers (BB51)	80.6	-	-	-	-	80.6	72
Additional Compressed Natural Gas (CNG) Station (BC01)	2,632.3	-	-	-	-	2,632.3	72
City Court Lobby Enhancement and Conference Room (BD01)	88.2	-	-	-	-	88.2	72
* Facilities Repair and Maintenance Program (YB64)	112.9	-	-	-	-	112.9	73
* Facilities Repair and Maintenance Program (YC01)	1,213.9	-	-	-	-	1,213.9	73
* Facilities Repair and Maintenance Program (YD01)	1,538.8	1,855.7	1,830.1	1,769.6	2,191.5	9,185.7	73
North Corp Yard CNG Compliance (BB53)	470.5	-	-	-	-	470.5	74
Street Operations North Storage Facility (BD02)	500.0	-	-	-	-	500.0	74
Transfer Station Expansion (BB56)	570.3	-	-	-	-	570.3	74
<b>Technology Improvements</b>							
CIP Contingency (ZB50)	9,500.0	4,500.0	4,500.0	4,500.0	4,500.0	27,500.0	75
CIP Contingency for Future Grants (ZB51)	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0	25,000.0	75
City Microwave Radio Network Upgrade (TEMP1728)	-	-	-	3,897.2	-	3,897.2	75
* Citywide Audio/Video Equipment Replacement (YC04)	15.8	-	-	-	-	15.8	76
* Citywide Audio/Video Equipment Replacement (YTEMP1799)	-	185.3	19.6	-	212.6	417.5	76
Data Center Resiliency Plan (JD01)	4,900.0	-	-	-	-	4,900.0	76
IT - Information Lifecycle Management (MB58)	190.6	-	-	-	-	190.6	77
* IT - Network Infrastructure (YC07)	80.2	-	-	-	-	80.2	77
* IT - Network Infrastructure (YD07)	400.0	381.6	419.7	441.5	566.8	2,209.6	77
* IT - Server Infrastructure (YB70)	378.6	-	-	-	-	378.6	79
* IT - Server Infrastructure (YC08)	636.9	-	-	-	-	636.9	78
* IT - Server Infrastructure (YD08)	535.1	356.7	1,993.6	996.3	761.3	4,643.0	78
IT - Telephone System Upgrade (MB56)	26.9	-	-	-	-	26.9	79
IT-Web Content Management SW (MB51)	98.3	-	-	-	-	98.3	79
License and Permit Management System (JD04)	300.0	-	-	-	-	300.0	79
Lobby Queuing System Replacements (JD03)	84.0	-	-	-	-	84.0	80
Mobile Network Software (MB57)	286.1	-	-	-	-	286.1	80
Network Infrastructure Extension (MB54)	71.6	-	-	-	-	71.6	80
Online Bill Payment and Presentment System (JB65)	327.4	-	-	-	-	327.4	81
Payroll System Replacement (JB59)	870.2	-	-	-	-	870.2	81
Public Records and Litigation Document Review Software (JB50)	80.6	-	-	-	-	80.6	82
Solid Waste Vehicle Monitoring System (JB66)	330.6	-	-	-	-	330.6	82
Street Operations Work and Asset Management System (JB56)	159.9	-	-	-	-	159.9	82
Wide Area Network Fiber (MB53)	160.4	-	-	-	-	160.4	83

\*Recurring Capital Maintenance Projects.

**Additional Compressed Natural Gas (CNG) Fuel Dispensers - (BB51)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 354.3      **Total Project Cost:** 434.9  
**Location:** North Corporate Yard  
**Project Type:** Construction Related  
**Description:** Upgrade and add five posts to the city's compressed natural gas (CNG) fueling station located at the North Corporate Yard, which is being used at full capacity. The city's plans to purchase additional replacement vehicles that run on CNG in the near future will require additional fuel hoses and nozzles.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Fleet Rates	80.6	-	-	-	-	80.6
<b>Total:</b>	<b>80.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80.6</b>

**Additional Compressed Natural Gas (CNG) Station - (BC01)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 7.7      **Total Project Cost:** 2,640.0  
**Location:** Solid Waste Transfer Station  
**Project Type:** Construction Related

**Description:** Build a Compressed Natural Gas (CNG) fueling station to support the growing number of CNG powered solid waste refuse trucks. The city has over 54 vehicles with CNG powered engines in its fleet that are serviced by just one compression station located at the city's North Corporate Yard.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Fleet Rates	757.3	-	-	-	-	757.3
Sanitation Rates	1,875.0	-	-	-	-	1,875.0
<b>Total:</b>	<b>2,632.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,632.3</b>

**City Court Lobby Enhancement and Conference Room - (BD01)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 88.2  
**Location:** City Court  
**Project Type:** Construction Related  
**Description:** Construct City Court lobby area enhancements and a conference room to improve customer service and internal court operations.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Court Enhancement Funds	88.2	-	-	-	-	88.2
<b>Total:</b>	<b>88.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>88.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Facilities Repair and Maintenance Program - (YD01) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 9,185.7

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Protect the city's infrastructure through systematic and rational repair and maintenance to major municipal facilities including office buildings, recreation centers, libraries, sports field lighting, multi-use pathways and other buildings and facilities. The work involved is in the following areas: electrical, fencing and gates, heating, ventilation and air conditioning (HVAC), roofs and other major equipment items.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	1,538.8	1,855.7	1,830.1	1,769.6	2,191.5	9,185.7
<b>Total:</b>	<b>1,538.8</b>	<b>1,855.7</b>	<b>1,830.1</b>	<b>1,769.6</b>	<b>2,191.5</b>	<b>9,185.7</b>

**Facilities Repair and Maintenance Program - (YC01) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 804.2                      **Total Project Cost:** 2,018.1

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Protect the city's infrastructure through systematic and rational repair and maintenance to major municipal facilities including office buildings, recreation centers, libraries, sports field lighting, multi-use pathways and other buildings and facilities. The work involved is in the following areas: electrical, fencing and gates, heating, ventilation and air conditioning (HVAC), roofs and other major equipment items.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	1,213.9	-	-	-	-	1,213.9
<b>Total:</b>	<b>1,213.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,213.9</b>

**Facilities Repair and Maintenance Program - (YB64) ①②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 2,007.1                      **Total Project Cost:** 2,120.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Protect the city's infrastructure through systematic and rational repair and maintenance to major municipal facilities including office buildings, recreation centers, libraries, sports field lighting, multi-use pathways and other buildings and facilities. The work involved is in the following areas: electrical, fencing and gates, heating, ventilation and air conditioning (HVAC), roofs and other major equipment items.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	112.9	-	-	-	-	112.9
<b>Total:</b>	<b>112.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>112.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**North Corp Yard CNG Compliance - (BB53)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 10.2      **Total Project Cost:** 480.7  
**Location:** North Corporate Yard  
**Project Type:** Construction Related

**Description:** The city's fleet shop will be brought into compliance with current building codes for the service and maintenance of compressed natural gas (CNG) vehicles.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Fleet Rates	470.5	-	-	-	-	470.5
<b>Total:</b>	<b>470.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>470.5</b>

**Street Operations North Storage Facility - (BD02)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 500.0  
**Location:** 500 yards north of Dynamite Boulevard on the east side of Pima Road  
**Project Type:** Construction Related  
**Description:** Build a storage area for street operations shoulders and drainage and street cleaning programs. This location will provide storage of materials and equipment and enable more efficient response to maintenance needs in the city.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	500.0	-	-	-	-	500.0
<b>Total:</b>	<b>500.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500.0</b>

**Transfer Station Expansion - (BB56)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,229.7      **Total Project Cost:** 1,800.0  
**Location:** Solid Waste Transfer Station  
**Project Type:** Construction Related  
**Description:** This project will include the design and installation of erosion protection measures, an improved push wall to protect the existing building and replacement of the existing HVAC system.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sanitation Rates	570.3	-	-	-	-	570.3
<b>Total:</b>	<b>570.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>570.3</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**CIP Contingency - (ZB50)**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 27,500.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provides budgetary appropriation set aside for citywide emergencies or unforeseen expenditures not otherwise budgeted.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	9,500.0	4,500.0	4,500.0	4,500.0	4,500.0	27,500.0
<b>Total:</b>	<b>9,500.0</b>	<b>4,500.0</b>	<b>4,500.0</b>	<b>4,500.0</b>	<b>4,500.0</b>	<b>27,500.0</b>

**CIP Contingency for Future Grants - (ZB51)**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 25,000.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provides budgetary appropriation set aside for citywide unforeseen grants not otherwise budgeted.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	5,000.0	5,000.0	5,000.0	5,000.0	5,000.0	25,000.0
<b>Total:</b>	<b>5,000.0</b>	<b>5,000.0</b>	<b>5,000.0</b>	<b>5,000.0</b>	<b>5,000.0</b>	<b>25,000.0</b>

**City Microwave Radio Network Upgrade - (TEMP1728)**

**Est. Completion:** 06/20                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 3,897.2  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** This project will replace the microwave radio network that supports both the City Public Safety Radio system and the city's portion of the Fire Very High Frequency (VHF) Radio System. This project will replace the microwave base station equipment in support of a mandatory system upgrade for the Public Safety Radio System scheduled for 2021. The new microwave network will also be expanded to provide support for the Water Department's increasing needs for supervisory control and data acquisition and security network communications.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	-	-	-	3,020.1	-	3,020.1
Aviation Funds	-	-	-	17.9	-	17.9
Court Enhancement Funds	-	-	-	15.3	-	15.3
Fleet Rates	-	-	-	15.3	-	15.3
Sanitation Rates	-	-	-	232.7	-	232.7
Sewer Rates	-	-	-	211.0	-	211.0
Transportation 0.2% Sales Tax	-	-	-	173.9	-	173.9
Water Rates	-	-	-	211.0	-	211.0
<b>Total:</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,897.2</b>	<b>-</b>	<b>3,897.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Citywide Audio/Video Equipment Replacement - (YTEMP1799) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 417.5  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** The replacement, upgrade or refurbishment of the television broadcast equipment and audio/visual equipment in both the City Hall Kiva and the CityCable 11 studios when this equipment reaches the end of its expected lifespan or for specific needed improvements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	-	185.3	19.6	-	212.6	417.5
<b>Total:</b>	<b>-</b>	<b>185.3</b>	<b>19.6</b>	<b>-</b>	<b>212.6</b>	<b>417.5</b>

**Citywide Audio/Video Equipment Replacement - (YC04) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 145.5                      **Total Project Cost:** 161.3  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** The replacement, upgrade or refurbishment of the television broadcast equipment and audio/visual equipment in both the City Hall Kiva and the CityCable 11 studios when this equipment reaches the end of its expected lifespan or for specific needed improvements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	15.8	-	-	-	-	15.8
<b>Total:</b>	<b>15.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15.8</b>

**Data Center Resiliency Plan - (JD01)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 4,900.0  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Plan for the catastrophic loss of the city's primary data center as well as other departmental data centers. Establish a new data center with a third party provider. The new data center will be leveraged to provide a resilient diverse option for each of the existing data centers. Provide the hardware and software required to establish service at the new data center. Modify the existing city primary data center to integrate with the new data center.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	4,900.0	-	-	-	-	4,900.0
<b>Total:</b>	<b>4,900.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,900.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**IT - Information Lifecycle Management - (MB58)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 19.4      **Total Project Cost:** 210.0

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Move the city Police Department's electronic storage and corresponding servers to the Scottsdale Center for the Performing Arts (SCPA). The migration will provide a cost avoidance for the replacement of the Police digital evidence data storage environment that has reached end of life. Additionally, this migration will consolidate resources that will reduce the costs of providing business continuity for this environment as part of the Essential Services Restoration Plan currently being reviewed by an external consultant for IT.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	190.6	-	-	-	-	190.6
<b>Total:</b>	<b>190.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>190.6</b>

**IT - Network Infrastructure - (YC07) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 263.5      **Total Project Cost:** 343.7

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Planned systematic upgrade and ongoing replacement of the city's computer network infrastructure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	80.5	-	-	-	-	80.5
Water Rates	(0.3)	-	-	-	-	(0.3)
<b>Total:</b>	<b>80.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80.2</b>

**IT - Network Infrastructure - (YD07) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 2,209.6

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Planned systematic upgrade and ongoing replacement of the city's computer network infrastructure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	336.9	321.3	353.4	371.7	477.3	1,860.6
Aviation Funds	2.0	1.9	2.1	2.3	2.9	11.2
CDBG	0.8	0.8	0.8	0.9	1.1	4.4
Fleet Rates	4.5	4.3	4.8	5.0	6.4	25.0
Sanitation Rates	3.5	3.4	3.7	3.9	5.0	19.5
Self Insurance	1.2	1.2	1.3	1.4	1.8	6.9
Sewer Rates	9.1	8.7	9.5	10.0	12.9	50.2
Transportation 0.2% Sales Tax	12.4	11.8	13.0	13.6	17.5	68.3
Water Rates	29.6	28.2	31.1	32.7	41.9	163.5
<b>Total:</b>	<b>400.0</b>	<b>381.6</b>	<b>419.7</b>	<b>441.5</b>	<b>566.8</b>	<b>2,209.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**IT - Server Infrastructure - (YC08) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 31.3                      **Total Project Cost:** 668.2

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Planned systematic upgrade and ongoing replacement of the city's server infrastructure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	557.2	-	-	-	-	557.2
Aviation Funds	2.8	-	-	-	-	2.8
Fleet Rates	7.7	-	-	-	-	7.7
Sanitation Rates	16.0	-	-	-	-	16.0
Section 8	0.9	-	-	-	-	0.9
Self Insurance	2.3	-	-	-	-	2.3
Sewer Rates	4.8	-	-	-	-	4.8
Transportation 0.2% Sales Tax	19.7	-	-	-	-	19.7
Water Rates	25.5	-	-	-	-	25.5
<b>Total:</b>	<b>636.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>636.9</b>

**IT - Server Infrastructure - (YD08) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 4,643.0

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Planned systematic upgrade and ongoing replacement of the city's server infrastructure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	450.6	300.5	1,678.8	838.9	641.1	3,909.9
Aviation Funds	2.7	1.8	10.2	5.1	3.9	23.7
CDBG	1.1	0.7	4.0	2.0	1.5	9.3
Fleet Rates	6.1	4.0	22.6	11.3	8.6	52.6
Sanitation Rates	4.7	3.1	17.5	8.8	6.7	40.8
Self Insurance	1.7	1.1	6.2	3.1	2.4	14.5
Sewer Rates	12.1	8.1	45.2	22.6	17.3	105.3
Transportation 0.2% Sales Tax	16.5	11.0	61.6	30.8	23.5	143.4
Water Rates	39.6	26.4	147.5	73.7	56.3	343.5
<b>Total:</b>	<b>535.1</b>	<b>356.7</b>	<b>1,993.6</b>	<b>996.3</b>	<b>761.3</b>	<b>4,643.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**IT - Server Infrastructure - (YB70) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 522.9                      **Total Project Cost:** 901.5  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Planned systematic upgrade and ongoing replacement of the city's server infrastructure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	378.6	-	-	-	-	378.6
<b>Total:</b>	<b>378.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>378.6</b>

**IT - Telephone System Upgrade - (MB56)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 603.1                      **Total Project Cost:** 630.0  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Continue to provide phone service to individuals on the city's main campuses by replacing the aging infrastructure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	26.9	-	-	-	-	26.9
<b>Total:</b>	<b>26.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>26.9</b>

**IT-Web Content Management SW - (MB51)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 200.1                      **Total Project Cost:** 298.4  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Implement an enterprise wide web content management system to improve the integrity and manageability of Internet and Intranet services through increased efficiency of the publishing process.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	98.3	-	-	-	-	98.3
<b>Total:</b>	<b>98.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>98.3</b>

**License and Permit Management System - (JD04)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 300.0  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Implement a new, modern license and permit management system to enable the administration of over 30,000 regulatory license and permit holders and collection of over \$3,000,000 annually.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	300.0	-	-	-	-	300.0
<b>Total:</b>	<b>300.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Lobby Queuing System Replacements - (JD03)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 84.0  
**Location:** City Court  
**Project Type:** Technology Related  
**Description:** Provide an efficient and effective way to manage lobby flow and provide performance metrics to assist with staff resourcing. The new system assigns service call numbers to patrons of the court and prioritizes waiting periods.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Court Enhancement Funds	84.0	-	-	-	-	84.0
<b>Total:</b>	<b>84.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>84.0</b>

**Mobile Network Software - (MB57)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 60.3      **Total Project Cost:** 346.4  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Implement applications which will provide incremental software updates, auditing control, license management and additional security for the mobile computing platform. The applications coupled with required infrastructure will provide the capability to manage mobile computing assets from a central support location by integrating with wireless interfaces.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	148.5	-	-	-	-	148.5
Fleet Rates	2.0	-	-	-	-	2.0
Sanitation Rates	32.5	-	-	-	-	32.5
Sewer Rates	16.5	-	-	-	-	16.5
Transportation 0.2% Sales Tax	27.5	-	-	-	-	27.5
Water Rates	59.1	-	-	-	-	59.1
<b>Total:</b>	<b>286.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>286.1</b>

**Network Infrastructure Extension - (MB54)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 790.9      **Total Project Cost:** 862.5  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Extend the city "network backbone" in order to provide service for key city sites and projects. A combination of microwave radio links, fiber optic cable and high-speed telephone circuits will be used.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	71.6	-	-	-	-	71.6
<b>Total:</b>	<b>71.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>71.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Online Bill Payment and Presentment System - (JB65)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 54.1                      **Total Project Cost:** 381.5

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Implement a new and modern online payment and presentment platform to enable the collection of over one million water, sewer and solid waste payments annually.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sanitation Rates	109.3	-	-	-	-	109.3
Sewer Rates	124.5	-	-	-	-	124.5
Water Rates	93.6	-	-	-	-	93.6
<b>Total:</b>	<b>327.4</b>	-	-	-	-	<b>327.4</b>

**Payroll System Replacement - (JB59)**

**Est. Completion:** 01/18                      **ITD Expenditures (Thru 03/16):** 29.5                      **Total Project Cost:** 899.7

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Implement a fully integrated Payroll and Human Resources Information System to enable a cost-effective, citywide resource to reduce redundancy and human error, while increasing organizational efficiency.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	466.9	-	-	-	-	466.9
Aviation Funds	3.1	-	-	-	-	3.1
CDBG	1.5	-	-	-	-	1.5
Court Enhancement Funds	2.7	-	-	-	-	2.7
Fleet Rates	10.4	-	-	-	-	10.4
Forensic Science IGAs	0.3	-	-	-	-	0.3
McCormick RailRoad Park	2.8	-	-	-	-	2.8
RICO	248.2	-	-	-	-	248.2
Sanitation Rates	33.0	-	-	-	-	33.0
Section 8	1.7	-	-	-	-	1.7
Self Insurance	1.7	-	-	-	-	1.7
Sewer Rates	11.8	-	-	-	-	11.8
Transportation 0.2% Sales Tax	18.5	-	-	-	-	18.5
Water Rates	67.6	-	-	-	-	67.6
<b>Total:</b>	<b>870.2</b>	-	-	-	-	<b>870.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Public Records and Litigation Document Review Software - (JB50) ①**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 208.2                      **Total Project Cost:** 288.8  
**Location:** City Attorney's Office  
**Project Type:** Technology Related  
**Description:** Purchase document review software to more efficiently process information that has been manually identified and collected pertaining to public records requests and litigation cases.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	80.6	-	-	-	-	80.6
<b>Total:</b>	<b>80.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>80.6</b>

**Solid Waste Vehicle Monitoring System - (JB66)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 491.9                      **Total Project Cost:** 822.5  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Purchase and install a vehicle monitoring system for the solid waste vehicle fleet that will provide vehicle maintenance and operations monitoring, Radio Frequency Identification (RFID) technology for monitoring container servicing and usage and other applications that will assist in increasing the productivity and efficiency of Solid Waste departmental operations.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sanitation Rates	330.6	-	-	-	-	330.6
<b>Total:</b>	<b>330.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>330.6</b>

**Street Operations Work and Asset Management System - (JB56)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 8.2                      **Total Project Cost:** 168.1  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Purchase and integrate a software package to provide asset and work management for all of the maintenance work falling under the jurisdiction of the Street Operations department. This includes work and assets relating to shoulders and drainage, pavement management, signs and markings, traffic signals, street lights and street cleaning.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	159.9	-	-	-	-	159.9
<b>Total:</b>	<b>159.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>159.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Wide Area Network Fiber - (MB53)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 305.5                      **Total Project Cost:** 465.9

**Location:** Citywide

**Project Type:** Technology Related

**Description:** Extend fiber that is being placed for the Intelligent Transportation Systems (ITS) project to city locations on the wide area network (WAN) such as parks and libraries that are in very close proximity to current or planned fiber paths. This upgrade will allow these locations to connect directly to the city network.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	160.4	-	-	-	-	160.4
<b>Total:</b>	<b>160.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>160.4</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



FY 2016/17 Adopted Budget





## 124<sup>th</sup> Street & Cactus Intersection Improvements



# Project Descriptions

(In thousands of dollars)

## Transportation

Transportation programs focus on providing for the safe, efficient, and affordable movement of people and goods. This program meets this goal by attempting to offer real transportation choices in a way that meets the needs of the community. In 1989 voters authorized a 0.2 percent privilege tax to fund transportation operations and improvements. In 2004 voters approved a 20-year extension of a half-cent transportation sales tax in Maricopa County that was first approved in 1985 to fund freeway construction. This program looks for the best use of these funding sources and addresses the multi-modal concept. Approximately 24.4 percent (\$156.4 million) of the CIP has been identified to address the transportation needs of the city.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Transportation</b>							
<b>Aviation/Aviation Improvements</b>							
Airport Future Grants Contingency (ZB53)	3,600.1	-	-	-	-	3,600.1	87
Airport Pavement Preservation Program (AB52)	522.2	100.0	100.0	-	-	722.2	87
Airport Security System Improvements (AB54)	34.3	-	-	-	-	34.3	87
Airport Terminal Area Redevelopment Project (AB59)	27,898.2	-	-	-	-	27,898.2	87
Apron Reconstruction - Delta Apron (AC02)	2,400.0	1,400.0	-	-	-	3,800.0	88
Aviation Match Contingency (ZB52)	250.0	-	-	-	-	250.0	88
Construct Airport Operations/Maintenance (AB55)	640.1	-	-	-	-	640.1	88
Environmental Assessment for Land Acquisition (TEMPAB57)	-	-	-	200.0	-	200.0	89
Erosion Protection/Wildlife Mitigation - Runway Approach Area (AC01)	438.5	-	-	-	-	438.5	89
Reconstruct Taxiway "A" and Exits (AB60)	7,504.7	-	-	-	-	7,504.7	89
Rehabilitate Runway 03/21 (AB61)	7,300.0	-	-	-	-	7,300.0	90
Rehabilitate Taxiway "B" and Exits (AB56)	1,497.0	-	-	-	-	1,497.0	90
Rehabilitate Taxiway "C" (TEMP975)	-	70.0	630.0	-	-	700.0	90
Relocate Electrical Vault and Beacon (AD01)	600.0	-	-	-	-	600.0	91
Replace Electrical Pullboxes - Main Apron (AB58)	125.1	-	-	-	-	125.1	91
Runway Guard Lights (TEMP1760)	-	2,000.0	-	-	-	2,000.0	91
Runway Safety Enhancements Phase 2 (AB53)	2,009.5	-	-	-	-	2,009.5	92
<b>Streets/Street Improvements</b>							
124th & 128th Street - Street, Intersection and Multi-Use Path Improvements (SB55)	292.2	-	-	-	-	292.2	93
Frank Lloyd Wright-Scottsdale Rd to Shea (SB50)	907.2	-	-	-	-	907.2	93
McDowell Road Bicycle Lanes from Pima Road to 64th Street (SD01)	470.0	3,368.0	-	-	-	3,838.0	93
Miller Road Underpass at the 101 Freeway (SC03)	1,000.0	-	-	-	-	1,000.0	94
Osborn Road Complete Street: Hayden Road to Scottsdale Road (TEMP1803)	-	-	315.0	1,297.9	-	1,612.9	94
* Pavement Overlay Program (YC29)	4,593.0	-	-	-	-	4,593.0	94
* Pavement Overlay Program (YD29)	6,550.0	6,550.0	6,550.0	6,550.0	6,550.0	32,750.0	95
Pavement Replacement (TC06)	12,595.0	-	-	-	-	12,595.0	95
Pima Road - Pinnacle Peak to Happy Valley (SC01)	3,581.7	4,571.5	-	-	-	8,153.2	95
Pima Road: Via Linda to Via de Ventura (SB57)	1,810.9	-	-	-	-	1,810.9	96
Pima Road: Krail Street to Chaparral Road (SC04)	473.0	343.0	807.0	-	-	1,623.0	96
Raintree Drive: Hayden Road to Loop 101 (SC02)	2,506.0	6,500.0	-	-	-	9,006.0	97
Raintree Drive: Scottsdale Road to Hayden Road (SB53)	22,394.5	-	-	-	-	22,394.5	97
Redfield Road: Raintree Drive to Hayden Road (SB56)	2,142.9	-	-	-	-	2,142.9	98
Replace Drainage Grates (SB58)	203.7	100.0	100.0	100.0	100.0	603.7	98
Second Street Bike Path Connection (SD02)	70.0	330.0	-	-	-	400.0	98
Southbound Loop 101 Frontage Road Connections (SB54)	4,226.1	-	-	-	-	4,226.1	99
Underpass at Chaparral Road and IBW Path (TEMP1718)	-	318.0	1,267.1	-	-	1,585.1	99

\*Recurring Capital Maintenance Projects.

# Project Descriptions

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Transportation</b>							
<b>Traffic/Traffic Reduction</b>							
Advanced Traffic Signal Control Cabinets - Phase I (TC04)	717.7	-	-	-	-	717.7	100
Advanced Traffic Signal Control Cabinets - Phase II (TEMP1191)	-	-	-	721.0	-	721.0	100
Chaparral Road Traffic Calming, Sewer & Drainage Improvements-Scottsdale Rd. to 69th Place (TB61)	861.2	-	-	-	-	861.2	100
Hayden/Thomas Safety Improvements (TB57)	2,373.8	-	-	-	-	2,373.8	101
* Intersection Mobility Enhancements (YB72)	908.2	-	-	-	-	908.2	101
* Intersection Mobility Enhancements (YC19)	100.0	-	-	-	-	100.0	101
* Intersection Mobility Enhancements (YD19)	800.0	800.0	800.0	800.0	800.0	4,000.0	102
ITS/Signal System Upgrades (TB56)	2,952.9	-	-	-	-	2,952.9	102
* Neighborhood Traffic Management Program (YB62)	10.3	-	-	-	-	10.3	103
* Neighborhood Traffic Management Program (YB74)	262.9	-	-	-	-	262.9	102
* Neighborhood Traffic Management Program (YD21)	250.0	250.0	250.0	250.0	250.0	1,250.0	102
Thomas Road Corridor ITS Improvements (TC07)	483.7	-	-	-	-	483.7	103
* Traffic Signal Construction (YC23)	204.4	-	-	-	-	204.4	103
* Traffic Signal Construction (YD23)	300.0	300.0	300.0	300.0	300.0	1,500.0	104
<b>Transit/Transit Improvements</b>							
Arizona Canal Path - Chaparral to McDonald to Indian Bend Wash (TB58)	3,583.4	-	-	-	-	3,583.4	105
* Bikeways Program (YB77)	43.9	-	-	-	-	43.9	105
* Bikeways Program (YD28)	500.0	500.0	500.0	500.0	500.0	2,500.0	105
* Bus Stop Improvements (YB82)	335.0	-	-	-	-	335.0	106
Crosscut Canal Bridge and Path (TB63)	772.5	-	-	-	-	772.5	106
Downtown Sidewalk Improvements (TD01)	2,000.0	2,000.0	-	-	-	4,000.0	107
Mustang Transit Passenger Facility (TB50)	7,500.6	-	-	-	-	7,500.6	107
Pave 3 Dirt Roads (TB64)	383.9	-	-	-	-	383.9	108
Purchase of Transit Maintenance Vehicle (TC05)	70.0	-	-	-	-	70.0	108
Shea Underpass Access at 124th Street (TB66)	1,484.3	-	-	-	-	1,484.3	109
* Sidewalk Improvements (YB61)	18.3	-	-	-	-	18.3	110
* Sidewalk Improvements (YB73)	40.7	-	-	-	-	40.7	109
* Sidewalk Improvements (YD20)	350.0	350.0	350.0	350.0	350.0	1,750.0	109
Skysong Center Transit Passenger Facility and Sidewalk Improvements (TB51)	2,163.9	-	-	-	-	2,163.9	110
Thomas Road Bicycle Lanes and Enhanced Sidewalks (TB53)	268.3	-	-	-	-	268.3	110
* Trail Improvement Program (YB71)	310.3	-	-	-	-	310.3	111
* Trail Improvement Program (YD18)	350.0	350.0	350.0	350.0	350.0	1,750.0	110
Transit Bus Purchases (TB67)	5,711.0	-	-	-	-	5,711.0	111
Transit Route 72 Improvements (TC08)	275.5	-	-	-	-	275.5	111
Transit Stop Improvements (TC03)	357.5	100.0	100.0	100.0	100.0	757.5	111
Transit Vehicle Refurbishment (TB54)	74.8	-	-	-	-	74.8	112
WestWorld Trail Connections (TC02)	5,074.5	-	-	-	-	5,074.5	112

\*Recurring Capital Maintenance Projects.

**Airport Future Grants Contingency - (ZB53)**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 3,600.1  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Provides budgetary appropriation set aside for unforeseen aviation grants not otherwise budgeted.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	3,600.1	-	-	-	-	3,600.1
<b>Total:</b>	<b>3,600.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,600.1</b>

**Airport Pavement Preservation Program - (AB52)**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 590.8                      **Total Project Cost:** 1,313.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Pavement preservation for various areas at the Scottsdale Airport.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	522.2	100.0	100.0	-	-	722.2
<b>Total:</b>	<b>522.2</b>	<b>100.0</b>	<b>100.0</b>	<b>-</b>	<b>-</b>	<b>722.2</b>

**Airport Security System Improvements - (AB54)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 85.7                      **Total Project Cost:** 120.0  
**Location:** Scottsdale Airport  
**Project Type:** Technology Related  
**Description:** Update the access control and video surveillance systems to enhance security at the city's airport.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	34.3	-	-	-	-	34.3
<b>Total:</b>	<b>34.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>34.3</b>

**Airport Terminal Area Redevelopment Project - (AB59)**

**Est. Completion:** 04/18                      **ITD Expenditures (Thru 03/16):** 106.5                      **Total Project Cost:** 28,004.7  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Redevelop the Airport Terminal Building and Aviation Business Center to create a single, modern, hangar and office facility and additional parking to accommodate existing and new tenants.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	293.5	-	-	-	-	293.5
MPC Bonds	27,604.7	-	-	-	-	27,604.7
<b>Total:</b>	<b>27,898.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>27,898.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Apron Reconstruction - Delta Apron - (AC02)**

**Est. Completion:** 12/18                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 3,800.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Design and reconstruct the "Delta" aircraft parking apron that is necessary to meet Federal Aviation Administration (FAA) standards for the design aircraft. The existing pavement has exceeded its 20 year life expectancy.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	107.3	62.6	-	-	-	169.9
Grants	2,292.7	1,337.4	-	-	-	3,630.1
<b>Total:</b>	<b>2,400.0</b>	<b>1,400.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,800.0</b>

**Aviation Match Contingency - (ZB52)**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 250.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Provides budget appropriation set aside for the city's matching portion of unforeseen grants not otherwise budgeted.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	250.0	-	-	-	-	250.0
<b>Total:</b>	<b>250.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250.0</b>

**Construct Airport Operations/Maintenance - (AB55)**

**Est. Completion:** 06/16                      **ITD Expenditures (Thru 03/16):** 4,534.9                      **Total Project Cost:** 5,175.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Design and construct a consolidated operations and maintenance facility on existing airport property. The facility will allow for storage of assets in one location and release a covered t-hangar to generate additional revenue. This facility will be constructed in the central part of the airport, which will also enhance airfield security by providing airport operations staff with a full and unobstructed view of the airfield at all times.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	640.1	-	-	-	-	640.1
<b>Total:</b>	<b>640.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>640.1</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Environmental Assessment for Land Acquisition - (TEMPAB57)**

**Est. Completion:** 06/20                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 200.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Conduct an environmental assessment as a prerequisite to land acquisition surrounding the airport. This land will be used to accommodate future aviation needs and increase airport capacity.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	-	-	-	10.0	-	10.0
Grants	-	-	-	190.0	-	190.0
<b>Total:</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>200.0</b>	<b>-</b>	<b>200.0</b>

**Erosion Protection/Wildlife Mitigation - Runway Approach Area - (AC01)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 461.5                      **Total Project Cost:** 900.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Design and complete erosion protection and wildlife mitigation on the south end of the runway area.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	(349.4)	-	-	-	-	(349.4)
Grants	787.9	-	-	-	-	787.9
<b>Total:</b>	<b>438.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>438.5</b>

**Reconstruct Taxiway "A" and Exits - (AB60)**

**Est. Completion:** 02/17                      **ITD Expenditures (Thru 03/16):** 195.3                      **Total Project Cost:** 7,700.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Design and reconstruct pavement to Taxiway "Alpha" and exits, which is necessary to meet Federal Aviation Administration (FAA) standards for the design aircraft. The project also includes light-emitting diode (LED) lighting and signage. The pavement has exceeded its 20 year life expectancy.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	148.9	-	-	-	-	148.9
Grants	7,355.8	-	-	-	-	7,355.8
<b>Total:</b>	<b>7,504.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,504.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Rehabilitate Runway 03/21 - (AB61)**

**Est. Completion:** 09/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 7,300.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Rehabilitate the airport's runway, which is necessary to meet Federal Aviation Administration (FAA) standards for the design aircraft. This project also includes improving the runway shoulders, as well as light-emitting diode (LED) lights and signage.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	326.3	-	-	-	-	326.3
Grants	6,973.7	-	-	-	-	6,973.7
<b>Total:</b>	<b>7,300.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,300.0</b>

**Rehabilitate Taxiway "B" and Exits - (AB56)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 5,503.1                      **Total Project Cost:** 7,000.1  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Design and rehabilitate pavement to Taxiway "Bravo", the most heavily used taxiway on the airport, which is necessary to meet Federal Aviation Administration (FAA) standards for the design aircraft. The project also includes constructing new taxiway shoulders and lighting. The pavement has exceeded its 20 year life expectancy.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	93.5	-	-	-	-	93.5
Grants	1,403.5	-	-	-	-	1,403.5
<b>Total:</b>	<b>1,497.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,497.0</b>

**Rehabilitate Taxiway "C" - (TEMP975)**

**Est. Completion:** 12/19                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 700.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Design and reconstruct Taxiway "Charlie", which is necessary to meet the Federal Aviation Administration (FAA) standards for the design aircraft. This pavement has exceeded its 20 year life expectancy.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	-	7.0	63.0	-	-	70.0
Grants	-	63.0	567.0	-	-	630.0
<b>Total:</b>	<b>-</b>	<b>70.0</b>	<b>630.0</b>	<b>-</b>	<b>-</b>	<b>700.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Relocate Electrical Vault and Beacon - (AD01)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 600.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Relocate electrical vault and rotating beacon from current location to alternate location due to Airport Terminal Area Redevelopment Project.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	26.8	-	-	-	-	26.8
Grants	573.2	-	-	-	-	573.2
<b>Total:</b>	<b>600.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600.0</b>

**Replace Electrical Pullboxes - Main Apron - (AB58)**

**Est. Completion:** 01/17      **ITD Expenditures (Thru 03/16):** 19.9      **Total Project Cost:** 145.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Remove and replace approximately ten electrical pullboxes to maintain safety for aircraft that taxi over them.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	125.1	-	-	-	-	125.1
<b>Total:</b>	<b>125.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>125.1</b>

**Runway Guard Lights - (TEMP1760)**

**Est. Completion:** 12/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 2,000.0  
**Location:** Scottsdale Airport  
**Project Type:** Construction Related  
**Description:** Install guard lights at the runway hold position markings at entrances to the runway at Taxiways A3, A4, A5, A7, A10, A13, and A15 on the west side of the runway. Additionally, the guard lights will be placed at the extensions of Taxiways B10/C10 and B12 as an added safety measure on the east side of the runway.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	-	89.4	-	-	-	89.4
Grants	-	1,910.6	-	-	-	1,910.6
<b>Total:</b>	<b>-</b>	<b>2,000.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,000.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**Runway Safety Enhancements Phase 2 - (AB53)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 2,960.5                      **Total Project Cost:** 4,970.0

**Location:** Scottsdale Airport

**Project Type:** Construction Related

**Description:** Phase 2 involves a series of projects that will enhance the runway safety at the airport by creating additional spacing between the aircraft that are waiting for takeoff and the aircraft that are using the runway.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Aviation Funds	5.9	-	-	-	-	5.9
Grants	2,003.6	-	-	-	-	2,003.6
<b>Total:</b>	<b>2,009.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,009.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**124th & 128th Street - Street, Intersection and Multi-Use Path Improvements - (SB55) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 807.8      **Total Project Cost:** 1,100.0

**Location:** 124th Street and 128th Street north of Via Linda.

**Project Type:** Construction Related

**Description:** Design and construct half-street improvements along 128th Street, intersection improvements along both 124th and 128th Streets and a multi-use path connection from 124th Street to 128th Street. The construction will be in coordination and cooperation with the planned Lost Dog Wash and Ringtail Trailhead improvements, and improvements adjacent to Anasazi Elementary School and Mountainside Middle School. The city anticipates shared funding with the McDowell Sonoran Preserve and the Scottsdale Unified School District.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	292.2	-	-	-	-	292.2
<b>Total:</b>	<b>292.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>292.2</b>

**Frank Lloyd Wright–Scottsdale Rd to Shea - (SB50)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 1,560.3      **Total Project Cost:** 2,467.5

**Location:** Frank Lloyd Wright Boulevard from Scottsdale Road to Shea Boulevard

**Project Type:** Construction Related

**Description:** Design and construct a series of localized transportation improvements which include turn bays, channelized medians, sidewalks and other associated improvements. The localized projects include 76th street, 78th street, 82nd street, 90th street, Sweetwater, Cactus, Via Linda, Shea Boulevard and other spot locations along the Frank Lloyd Wright corridor.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	907.2	-	-	-	-	907.2
<b>Total:</b>	<b>907.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>907.2</b>

**McDowell Road Bicycle Lanes from Pima Road to 64th Street - (SD01)**

**Est. Completion:** 12/20      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 3,838.0

**Location:** McDowell Road from Pima Road to 64th Street

**Project Type:** Construction Related

**Description:** Design and construct bicycle lanes to provide continuous bicycle lane facilities along entire corridor. The motor vehicle travel lanes and median on McDowell Road will be narrowed, but the number of lanes will remain the same, at three per direction.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	443.2	3,152.4	-	-	-	3,595.6
Transportation 0.2% Sales Tax	26.8	215.6	-	-	-	242.4
<b>Total:</b>	<b>470.0</b>	<b>3,368.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,838.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Miller Road Underpass at the 101 Freeway - (SC03)**

**Est. Completion:** 01/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,000.0

**Location:** Miller Road at the 101 Freeway.

**Project Type:** Construction Related

**Description:**

Analyze options for an underpass of Miller Road at the 101 Freeway to connect the south side of the freeway to the north. This street connection is identified on the Streets Plan in the Transportation Master Plan and is one of the regional Arterial Life Cycle Program projects.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	700.0	-	-	-	-	700.0
Transportation 0.2% Sales Tax	300.0	-	-	-	-	300.0
<b>Total:</b>	<b>1,000.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,000.0</b>

**Osborn Road Complete Street: Hayden Road to Scottsdale Road - (TEMP1803)**

**Est. Completion:** 12/20      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,612.9

**Location:** Osborn Road from Hayden Road to Scottsdale Road

**Project Type:** Construction Related

**Description:** Design and construct bicycle lanes, sidewalk segments, Indian Bend Wash path connection and a roundabout at Miller Road and Osborn Road.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	-	-	-	1,214.5	-	1,214.5
Transportation 0.2% Sales Tax	-	-	315.0	83.4	-	398.4
<b>Total:</b>	<b>-</b>	<b>-</b>	<b>315.0</b>	<b>1,297.9</b>	<b>-</b>	<b>1,612.9</b>

**Pavement Overlay Program - (YC29) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 1,791.0      **Total Project Cost:** 6,384.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Ongoing project for street pavement overlays and all costs associated with these improvements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	4,593.0	-	-	-	-	4,593.0
<b>Total:</b>	<b>4,593.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,593.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Pavement Overlay Program - (YD29) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 32,750.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Ongoing project for street pavement overlays and all costs associated with these improvements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	6,550.0	6,550.0	6,550.0	6,550.0	6,550.0	32,750.0
<b>Total:</b>	<b>6,550.0</b>	<b>6,550.0</b>	<b>6,550.0</b>	<b>6,550.0</b>	<b>6,550.0</b>	<b>32,750.0</b>

**Pavement Replacement - (TC06)**

**Est. Completion:** 06/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 12,595.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Ongoing project for street pavement overlays and all costs associated with these improvements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
2015 GO Bond - Q4 - Street Pavement Rehab	12,500.0	-	-	-	-	12,500.0
Transportation 0.2% Sales Tax	95.0	-	-	-	-	95.0
<b>Total:</b>	<b>12,595.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12,595.0</b>

**Pima Road - Pinnacle Peak to Happy Valley - (SC01)**

**Est. Completion:** 06/20      **ITD Expenditures (Thru 03/16):** 39.8      **Total Project Cost:** 8,193.0  
**Location:** Pima Road - Pinnacle Peak Road to Happy Valley Road  
**Project Type:** Construction Related

**Description:** Design, acquire right-of-way and construct a six-lane major arterial cross-section with landscaped median, turn lanes, bike lanes, sidewalks, curb and gutter, roadway drainage and Intelligent Transportation Systems facilities.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	2,535.0	3,200.0	-	-	-	5,735.0
Transportation 0.2% Sales Tax	1,046.7	1,371.5	-	-	-	2,418.2
<b>Total:</b>	<b>3,581.7</b>	<b>4,571.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,153.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Pima Road: Via Linda to Via de Ventura - (SB57)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 101.8      **Total Project Cost:** 1,912.7

**Location:** Pima Road at Via Linda Road

**Project Type:** Construction Related

**Description:** Design and construct intersection improvements along Pima Road and Via Linda Road.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	1,282.5	-	-	-	-	1,282.5
Transportation 0.2% Sales Tax	528.4	-	-	-	-	528.4
<b>Total:</b>	<b>1,810.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,810.9</b>

**Pima Road: Krail Street to Chaparral Road - (SC04)**

**Est. Completion:** 06/19      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,623.0

**Location:** Pima Road: Krail Street to Chaparral Road

**Project Type:** Construction Related

**Description:** Design and construct a four-lane minor arterial cross-section including medians, bike lanes and sidewalks. The Salt River Pima-Maricopa Indian Community (SRPMIC) will implement the design and construction of the project with an overall project cost of \$13.5 million. The City of Scottsdale is responsible for 12 percent of the project cost, SRPMIC is responsible for 18 percent and the Maricopa Association of Governments (MAG) is responsible for 70 percent per the Intergovernmental Agreement (IGA) with MAG and SRPMIC. The city's total responsibility is \$1.6 million.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	473.0	343.0	807.0	-	-	1,623.0
<b>Total:</b>	<b>473.0</b>	<b>343.0</b>	<b>807.0</b>	<b>-</b>	<b>-</b>	<b>1,623.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Raintree Drive: Hayden Road to Loop 101 - (SC02)**

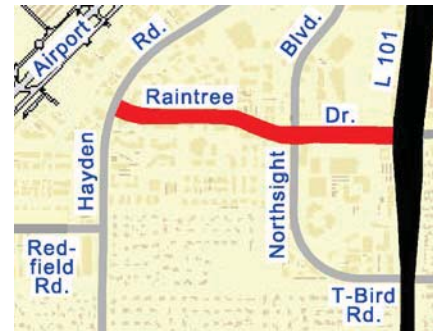
**Est. Completion:** 06/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 9,006.0

**Location:** Scottsdale Airpark

**Project Type:** Construction Related

**Description:**

Improve the existing five-lane Raintree corridor between Hayden Road and Loop 101 Freeway by rebuilding intersections, modifying medians, and enhancing pedestrian bicycle and transit facilities. This is one of the segments of the overarching project to extend Raintree Drive from Scottsdale Road to Loop 101.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	1,754.0	4,550.0	-	-	-	6,304.0
Transportation 0.2% Sales Tax	752.0	1,950.0	-	-	-	2,702.0
<b>Total:</b>	<b>2,506.0</b>	<b>6,500.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9,006.0</b>

**Raintree Drive: Scottsdale Road to Hayden Road - (SB53) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 896.7      **Total Project Cost:** 23,291.2

**Location:** Scottsdale Airpark

**Project Type:** Construction Related

**Description:**

Design and reconstruct a portion of Redfield Road, 76th Place, Acoma Drive and 78th Way to create the extension of Raintree Drive west of Hayden Road. This is one of the segments of the overarching project to extend Raintree Drive from Scottsdale Road to Hayden Road.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	15,604.8	-	-	-	-	15,604.8
Transportation 0.2% Sales Tax	6,789.7	-	-	-	-	6,789.7
<b>Total:</b>	<b>22,394.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>22,394.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Redfield Road: Raintree Drive to Hayden Road - (SB56)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 2,142.9

**Location:** Scottsdale Airpark

**Project Type:** Construction Related

**Description:** Widen the existing Thunderbird-Redfield corridor from four to five lanes between Scottsdale Road and 76th Place. Also connect to Raintree Drive, resulting in an extension of the Raintree corridor to Scottsdale Road. The completed corridor will be renamed Raintree Drive. Project may include improvements to the intersection of Scottsdale Road. Redfield Road will also be restriped and reconstructed, as necessary, from 76th Place to Hayden Road. Project will increase capacity, improve safety and provide enhanced pedestrian and bike facilities. This is one of the segments of the overarching project to extend Redfield Road from Raintree Drive to Hayden Road.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	1,500.0	-	-	-	-	1,500.0
Transportation 0.2% Sales Tax	642.9	-	-	-	-	642.9
<b>Total:</b>	<b>2,142.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,142.9</b>

**Replace Drainage Grates - (SB58)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 155.3      **Total Project Cost:** 759.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Replace modified and non-bicycle-friendly drainage grates with ones that meet standards for bicycle-safe drainage grates throughout the city.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	203.7	100.0	100.0	100.0	100.0	603.7
<b>Total:</b>	<b>203.7</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>603.7</b>

**Second Street Bike Path Connection - (SD02)**

**Est. Completion:** 01/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 400.0

**Location:** 2nd Street alignment from the Indian Bend Wash to 68th Street.

**Project Type:** Construction Related

**Description:** Design and construct a bike path, bike path modifications and bike lanes to connect the Indian Bend Wash to 68th Street along the 2nd Street alignment, or close proximity.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	70.0	330.0	-	-	-	400.0
<b>Total:</b>	<b>70.0</b>	<b>330.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>400.0</b>

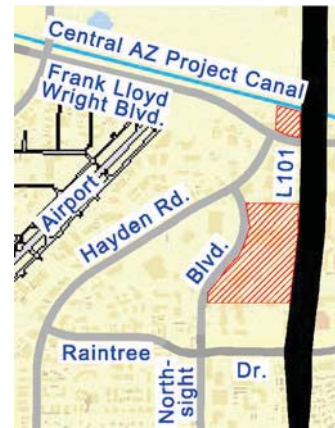
① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Southbound Loop 101 Frontage Road Connections - (SB54) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 134.0      **Total Project Cost:** 4,360.1  
**Location:** Scottsdale Airpark  
**Project Type:** Construction Related

**Description:**

Design and construct new east-west street corridors between the Central Arizona Project Canal and Thunderbird Road that will provide connections between the southbound Loop 101 frontage road and adjacent streets and commercial centers. Create new east-west street corridors between Hayden Road to the southbound Loop 101 Frontage Road from the Central Arizona Project Canal to Thunderbird Road. The new corridors will promote safe efficient travel through the existing commercial corridor in this area.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Regional Sales Tax - Arterial Life Cycle Program	3,003.5	-	-	-	-	3,003.5
Transportation 0.2% Sales Tax	1,222.6	-	-	-	-	1,222.6
<b>Total:</b>	<b>4,226.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,226.1</b>

**Underpass at Chaparral Road and IBW Path - (TEMP1718)**

**Est. Completion:** 06/19      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,585.1  
**Location:** Under Chaparral Road adjacent to and east of Hayden Road  
**Project Type:** Construction Related  
**Description:** Design and construction an underpass for the Indian Bend Wash path under Chaparral Road east of Hayden Road.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	-	-	1,182.6	-	-	1,182.6
Transportation 0.2% Sales Tax	-	318.0	84.5	-	-	402.5
<b>Total:</b>	<b>-</b>	<b>318.0</b>	<b>1,267.1</b>	<b>-</b>	<b>-</b>	<b>1,585.1</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**Advanced Traffic Signal Control Cabinets - Phase I - (TC04)**

**Est. Completion:** 12/16      **ITD Expenditures (Thru 03/16):** 3.3      **Total Project Cost:** 721.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Replace standard signal cabinets with advanced hybrid cabinets at arterial to arterial intersections.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	677.0	-	-	-	-	677.0
Transportation 0.2% Sales Tax	40.7	-	-	-	-	40.7
<b>Total:</b>	<b>717.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>717.7</b>

**Advanced Traffic Signal Control Cabinets - Phase II - (TEMP1191)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 721.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Replace standard signal cabinets with advanced hybrid cabinets at arterial to collector intersections.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	-	-	-	677.0	-	677.0
Transportation 0.2% Sales Tax	-	-	-	44.0	-	44.0
<b>Total:</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>721.0</b>	<b>-</b>	<b>721.0</b>

**Chaparral Road Traffic Calming, Sewer & Drainage Improvements-Scottsdale Rd. to 69th Place - (TB61) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,236.5      **Total Project Cost:** 2,097.7  
**Location:** Chaparral Road between 69th Place and Scottsdale Road  
**Project Type:** Construction Related  
**Description:** Reconstruct a portion of Chaparral Road to provide traffic calming, drainage improvements and a new sewer collection line.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
General Fund	62.0	-	-	-	-	62.0
Contributions	312.0	-	-	-	-	312.0
MPC Bonds	7.4	-	-	-	-	7.4
Sewer Rates	75.6	-	-	-	-	75.6
Stormwater In-Lieu Fees	9.2	-	-	-	-	9.2
Transportation 0.2% Sales Tax	395.0	-	-	-	-	395.0
<b>Total:</b>	<b>861.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>861.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

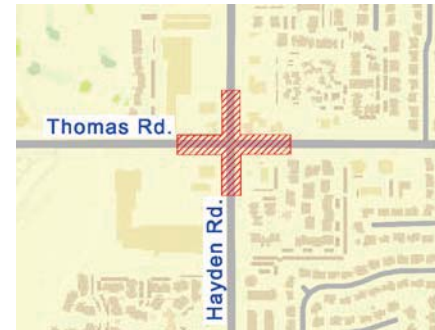
**Hayden/Thomas Safety Improvements - (TB57)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 333.9      **Total Project Cost:** 2,707.7

**Location:** Hayden Road and Thomas Road Intersection

**Project Type:** Construction Related

**Description:** Design and construct intersection improvements to enhance safety and traffic operations. Left turn improvements, median modifications, turn bays and bus bays are to be included. Sidewalk and other pedestrian improvements will also be constructed.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Bond 2000	760.4	-	-	-	-	760.4
Grants	1,601.8	-	-	-	-	1,601.8
Transportation 0.2% Sales Tax	11.6	-	-	-	-	11.6
<b>Total:</b>	<b>2,373.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,373.8</b>

**Intersection Mobility Enhancements - (YC19) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 100.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Provide roadway capacity and safety improvements at various locations within the city; projects range from adding an exclusive right-turn lane, a pedestrian refuge island and modifying medians and driveways.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	100.0	-	-	-	-	100.0
<b>Total:</b>	<b>100.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100.0</b>

**Intersection Mobility Enhancements - (YB72) ①②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 591.8      **Total Project Cost:** 1,500.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Provide roadway capacity and safety improvements at various locations within the city; projects range from adding an exclusive right-turn lane, a pedestrian refuge island and modifying medians and driveways.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	908.2	-	-	-	-	908.2
<b>Total:</b>	<b>908.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>908.2</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Intersection Mobility Enhancements - (YD19) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 4,000.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provide roadway capacity and safety improvements at various locations within the city; projects range from adding an exclusive right-turn lane, a pedestrian refuge island and modifying medians and driveways.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	800.0	800.0	800.0	800.0	800.0	4,000.0
<b>Total:</b>	<b>800.0</b>	<b>800.0</b>	<b>800.0</b>	<b>800.0</b>	<b>800.0</b>	<b>4,000.0</b>

**ITS/Signal System Upgrades - (TB56) ①**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 1,912.0                      **Total Project Cost:** 4,864.9  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Completion of the fiber network video detection and adaptive signal control system. Install new traffic signal controllers and firmware to replace aged units at major city roadway intersections, and add vehicle detection camera systems.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	2,952.9	-	-	-	-	2,952.9
<b>Total:</b>	<b>2,952.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,952.9</b>

**Neighborhood Traffic Management Program - (YB74) ①②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 187.1                      **Total Project Cost:** 450.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Street improvements for traffic calming that are developed through an active citizen involvement process.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	262.9	-	-	-	-	262.9
<b>Total:</b>	<b>262.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>262.9</b>

**Neighborhood Traffic Management Program - (YD21) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 1,250.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Street improvements for traffic calming that are developed through an active citizen involvement process.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	250.0	250.0	250.0	250.0	250.0	1,250.0
<b>Total:</b>	<b>250.0</b>	<b>250.0</b>	<b>250.0</b>	<b>250.0</b>	<b>250.0</b>	<b>1,250.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Neighborhood Traffic Management Program - (YB62) ①②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 239.7                      **Total Project Cost:** 250.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Street improvements for traffic calming that are developed through an active citizen involvement process.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	10.3	-	-	-	-	10.3
<b>Total:</b>	<b>10.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10.3</b>

**Thomas Road Corridor ITS Improvements - (TC07)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 483.7  
**Location:** 17 intersections within the Thomas Road corridor  
**Project Type:** Construction Related  
**Description:** Install new Intelligent Transportation System (ITS) equipment at 17 intersections within the Thomas Road corridor. The equipment will be placed on existing signal pole mast arms and inside existing signal controller cabinets. The improvements will enhance public safety, reduce congestion, decrease travel times and reduce detrimental environment impacts.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	368.7	-	-	-	-	368.7
Transportation 0.2% Sales Tax	115.0	-	-	-	-	115.0
<b>Total:</b>	<b>483.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>483.7</b>

**Traffic Signal Construction - (YC23) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 57.6                      **Total Project Cost:** 262.0  
**Location:** Multiple Locations  
**Project Type:** Construction Related  
**Description:** Design and construct new traffic signals or intersection control. This includes the purchase of new traffic signal equipment, and installing new equipment at existing traffic signal locations.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
In-Lieu Fees Transportation	12.0	-	-	-	-	12.0
Transportation 0.2% Sales Tax	192.4	-	-	-	-	192.4
<b>Total:</b>	<b>204.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>204.4</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Traffic Signal Construction - (YD23) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,500.0

**Location:** Multiple Locations

**Project Type:** Construction Related

**Description:** Design and construct new traffic signals or intersection control. This includes the purchase of new traffic signal equipment, and installing new equipment at existing traffic signal locations.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	300.0	300.0	300.0	300.0	300.0	1,500.0
<b>Total:</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>1,500.0</b>

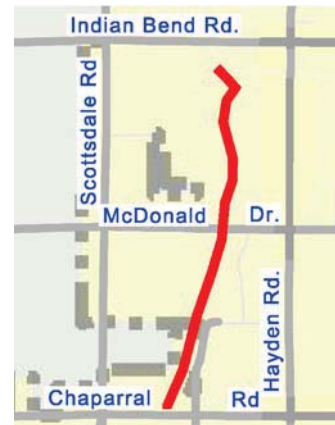
① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Arizona Canal Path - Chaparral to McDonald to Indian Bend Wash - (TB58)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 528.3      **Total Project Cost:** 4,111.7  
**Location:** Arizona Canal, from Chaparral Road to McDonald Road  
**Project Type:** Construction Related

**Description:** Design and construct a multiuse path along the Arizona Canal from Chaparral Road to the Indian Bend Wash path south of Indian Bend Road. Also included are landscaping, site furnishings, connections to adjacent neighborhoods and pedestrian bridges.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	1,782.7	-	-	-	-	1,782.7
Transportation 0.2% Sales Tax	1,800.7	-	-	-	-	1,800.7
<b>Total:</b>	<b>3,583.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,583.4</b>

**Bikeways Program - (YD28) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 2,500.0  
**Location:** Multiple locations  
**Project Type:** Construction Related  
**Description:** Improve multi use paths and on street bicycle facilities to include: path connections, grade separated crossings and upgrades to existing path segments.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	500.0	500.0	500.0	500.0	500.0	2,500.0
<b>Total:</b>	<b>500.0</b>	<b>500.0</b>	<b>500.0</b>	<b>500.0</b>	<b>500.0</b>	<b>2,500.0</b>

**Bikeways Program - (YB77) ①②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 806.1      **Total Project Cost:** 850.0  
**Location:** Multiple locations  
**Project Type:** Construction Related  
**Description:** Improve multi use paths and on street bicycle facilities to include: path connections, grade separated crossings and upgrades to existing path segments.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	43.9	-	-	-	-	43.9
<b>Total:</b>	<b>43.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>43.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Bus Stop Improvements - (YB82) ①②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 120.0                      **Total Project Cost:** 455.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Construct shelters to provide weather protection, seating, bike racks and other amenities at bus stops located through the community. Also install bus pullouts on the far side of signalized intersections to allow buses to pick up and discharge passengers outside of the flow of traffic.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Contributions	305.0	-	-	-	-	305.0
Transportation 0.2% Sales Tax	30.0	-	-	-	-	30.0
<b>Total:</b>	<b>335.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>335.0</b>

**Crosscut Canal Bridge and Path - (TB63)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 125.2                      **Total Project Cost:** 897.7  
**Location:** Crosscut Canal Path south of McDowell Road at approximately 66th Street  
**Project Type:** Construction Related

**Description:** Design and construct a non-motorized bridge over the Crosscut Canal, a ramp and a path. Also connect existing pathways between Tempe and Scottsdale, and make it safer for bicycles and pedestrian to access the new transit center south of the Scottsdale Road and McDowell Road intersection.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	626.3	-	-	-	-	626.3
Transportation 0.2% Sales Tax	146.2	-	-	-	-	146.2
<b>Total:</b>	<b>772.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>772.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Downtown Sidewalk Improvements - (TD01)**

**Est. Completion:** 01/18      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 4,000.0

**Location:** Downtown boundary

**Project Type:** Construction Related

**Description:** Design and construct sidewalk to provide continuous sidewalk corridors, widen narrow sidewalk, add accessible ramps where needed and modify sidewalk to conform to Americans with Disabilities Act (ADA) requirements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	2,000.0	2,000.0	-	-	-	4,000.0
<b>Total:</b>	<b>2,000.0</b>	<b>2,000.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,000.0</b>

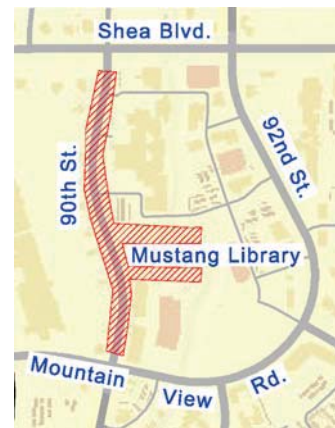
**Mustang Transit Passenger Facility - (TB50)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 893.3      **Total Project Cost:** 8,393.9

**Location:** Mustang Library at 90th Street and Shea Boulevard

**Project Type:** Construction Related

**Description:** Design and construct a transit facility along 90th Street (intersection with Mustang Library) south of Shea Boulevard. The project includes a two-lane roundabout, traffic control, bus shelters, landscaping and utility relocations.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Bond 2000	1,998.5	-	-	-	-	1,998.5
Grants	4,720.8	-	-	-	-	4,720.8
Transportation 0.2% Sales Tax	781.3	-	-	-	-	781.3
<b>Total:</b>	<b>7,500.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,500.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**Pave 3 Dirt Roads - (TB64)**

**Est. Completion:** 12/16                      **ITD Expenditures (Thru 03/16):** 980.6                      **Total Project Cost:** 1,364.5  
**Location:** Northern portion of the city, in segments of Via Dona Road, Hayden Road and Pinnacle Vista Road  
**Project Type:** Construction Related  
**Description:** Pave three dirt roads in segments of Via Dona Road, Hayden Road and Pinnacle Vista Road, in an effort to improve air quality where measured increases in traffic volumes have caused concern over dust pollution.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	365.0	-	-	-	-	365.0
Transportation 0.2% Sales Tax	18.9	-	-	-	-	18.9
<b>Total:</b>	<b>383.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>383.9</b>

**Purchase of Transit Maintenance Vehicle - (TC05)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 70.0  
**Location:** City of Scottsdale  
**Project Type:** Construction Related  
**Description:** Purchase a transit maintenance vehicle with a permanently mounted pressure washer and lift gate that will be used to maintain over 500 bus stops.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Contributions	70.0	-	-	-	-	70.0
<b>Total:</b>	<b>70.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>70.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Shea Underpass Access at 124th Street - (TB66) ①**

**Est. Completion:** 12/17      **ITD Expenditures (Thru 03/16):** 176.7      **Total Project Cost:** 1,661.0  
**Location:** Shea Boulevard east of 124th Street.  
**Project Type:** Construction Related

**Description:** Design and construct concrete shared use path and unpaved trail between Sahuaro Drive and Via Linda including access to existing tunnel under Shea Boulevard.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	1,253.0	-	-	-	-	1,253.0
In-Lieu Fees Transportation	6.3	-	-	-	-	6.3
Transportation 0.2% Sales Tax	225.0	-	-	-	-	225.0
<b>Total:</b>	<b>1,484.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,484.3</b>

**Sidewalk Improvements - (YB73) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 159.3      **Total Project Cost:** 200.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Install sidewalks and sidewalk ramps and facilities to enhance the city's pedestrian network.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	40.7	-	-	-	-	40.7
<b>Total:</b>	<b>40.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40.7</b>

**Sidewalk Improvements - (YD20) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,750.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Install sidewalks and sidewalk ramps and facilities to enhance the city's pedestrian network.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	350.0	350.0	350.0	350.0	350.0	1,750.0
<b>Total:</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>1,750.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Sidewalk Improvements - (YB61) ①②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 331.7                      **Total Project Cost:** 350.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Install sidewalks and sidewalk ramps and facilities to enhance the city's pedestrian network.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	18.3	-	-	-	-	18.3
<b>Total:</b>	<b>18.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18.3</b>

**Skysong Center Transit Passenger Facility and Sidewalk Improvements - (TB51)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 2,594.9                      **Total Project Cost:** 4,758.8  
**Location:** Transit Center at Scottsdale Road and McDowell Road. Sidewalk improvements on north side of McDowell Road from Scottsdale Road to Miller Road.  
**Project Type:** Construction Related  
**Description:** Design and construct transit passenger facilities at the ASU Skysong Technology Center located at Scottsdale Road and McDowell Road with bus shelters landscaping, lighting and passenger amenities. Design and construct sidewalk improvements on the north side of McDowell Road, from Scottsdale Road to Miller Road.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	2,008.3	-	-	-	-	2,008.3
Transportation 0.2% Sales Tax	155.6	-	-	-	-	155.6
<b>Total:</b>	<b>2,163.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,163.9</b>

**Thomas Road Bicycle Lanes and Enhanced Sidewalks - (TB53) ①**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 6,658.6                      **Total Project Cost:** 6,926.9  
**Location:** Thomas Road, 64th Street to Pima Road  
**Project Type:** Construction Related  
**Description:** Add bicycle lanes, shade, landscaping and site furnishings and widen the sidewalks.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	268.3	-	-	-	-	268.3
<b>Total:</b>	<b>268.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>268.3</b>

**Trail Improvement Program - (YD18) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 1,750.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** An on-going program to complete and enhance unpaved trails citywide.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	350.0	350.0	350.0	350.0	350.0	1,750.0
<b>Total:</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>1,750.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Trail Improvement Program - (YB71) ①②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 339.7                      **Total Project Cost:** 650.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** An on-going program to complete and enhance unpaved trails citywide.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	310.3	-	-	-	-	310.3
<b>Total:</b>	<b>310.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>310.3</b>

**Transit Bus Purchases - (TB67)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 5,711.0  
**Location:** South of Indian Bend Road on three Transit Routes  
**Project Type:** Construction Related  
**Description:** Purchase four replacement transit buses.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
CIP Regional Sales Tax - Transit	483.7	-	-	-	-	483.7
Grants	5,227.3	-	-	-	-	5,227.3
<b>Total:</b>	<b>5,711.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,711.0</b>

**Transit Route 72 Improvements - (TC08)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 275.5  
**Location:** Along Scottsdale Road Transit Route 72  
**Project Type:** Construction Related  
**Description:** Design and construct bus stop improvements along Scottsdale Road Transit Route 72.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	220.4	-	-	-	-	220.4
Transportation 0.2% Sales Tax	55.1	-	-	-	-	55.1
<b>Total:</b>	<b>275.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>275.5</b>

**Transit Stop Improvements - (TC03)**

**Est. Completion:** 06/21                      **ITD Expenditures (Thru 03/16):** 42.5                      **Total Project Cost:** 800.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Construct transit shelters to provide weather protection, seating, bike racks, and other amenities at transit stops located throughout the community. Further, construct bus pullouts to allow buses to pick up and discharge passengers outside of the traffic flow.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	357.5	100.0	100.0	100.0	100.0	757.5
<b>Total:</b>	<b>357.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>757.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Transit Vehicle Refurbishment - (TB54) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 450.2      **Total Project Cost:** 525.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Vehicle refurbishment including head signs, seating, re-painting and other mechanical and aesthetic treatment to transit vehicles.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Transportation 0.2% Sales Tax	74.8	-	-	-	-	74.8
<b>Total:</b>	<b>74.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>74.8</b>

**WestWorld Trail Connections - (TC02)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 37.1      **Total Project Cost:** 5,111.6  
**Location:** Areas adjacent to Westworld, Grayhawk, DC Ranch and McDowell Mountain Ranch.  
**Project Type:** Construction Related

**Description:** Design and construct 4.7 miles of non-motorized connectivity from WestWorld to adjoining neighborhoods and the McDowell Sonoran Preserve.



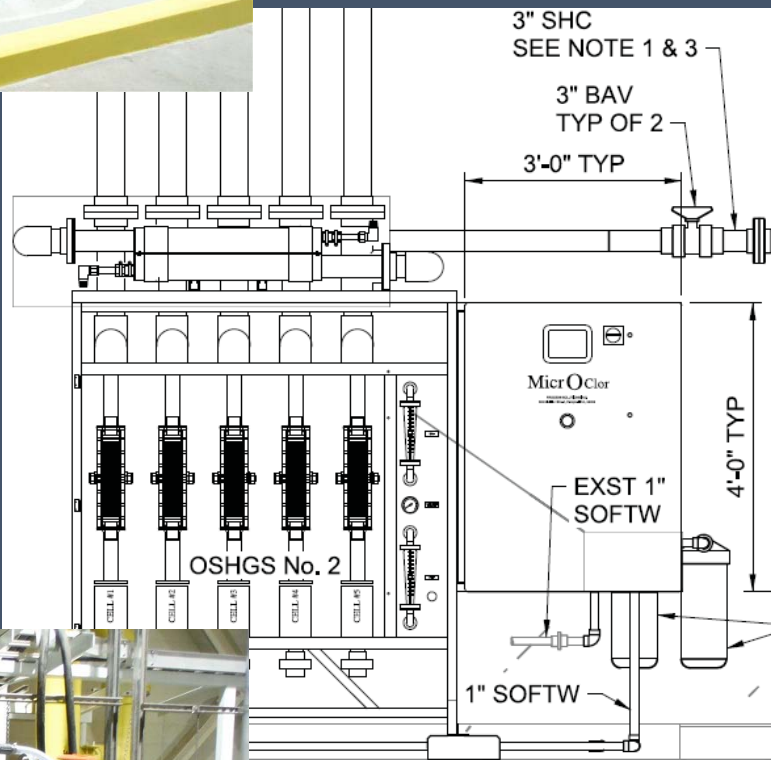
Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Grants	4,223.6	-	-	-	-	4,223.6
Transportation 0.2% Sales Tax	850.9	-	-	-	-	850.9
<b>Total:</b>	<b>5,074.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,074.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

Existing  
Condition



Removal and  
Replacement of Sodium  
Hypochlorite  
Generation System



Post Construction  
Condition



# Project Descriptions

(In thousands of dollars)

## Water Management

Water Management focuses on coordinating land use and infrastructure planning within the context of financial demands and available resources. This program achieves this goal by delivering safe, reliable water and providing water reclamation services. This program also reflects the city's commitment to federal and state regulations. Approximately 36.2 percent (\$232.3 million) of the CIP has been identified to address the water and water reclamation needs of the city.

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Water Management</b>							
<b>Wastewater Improvements</b>							
Advance Water Treatment Plant Membranes - Wastewater (VB69)	400.7	-	401.2	812.6	544.8	2,159.3	115
Campus Headworks Screen (VB65)	96.7	-	-	-	-	96.7	115
Campus/Central Arizona Project Drainage & Paving Improvements (Wastewater) (VB68)	2,229.0	-	-	-	-	2,229.0	116
Cross Roads East Wastewater (VB51)	3,930.0	-	-	-	-	3,930.0	116
Downtown Stormwater Pump Station Rehabilitation (VD02)	1,278.8	-	-	-	-	1,278.8	116
Gainey Ranch WWTP Reuse Recharge (VC03)	401.6	-	-	-	-	401.6	117
Hydrogen Sulfide Mitigation (VB63)	848.0	-	-	-	-	848.0	117
Master Plan Water Reclamation (VB70)	562.2	-	350.0	-	-	912.2	118
Northeast Sewer Pumpback Station Sewerline Replacement, Site Wall to ADOT ROW (VB61)	356.5	-	-	-	-	356.5	118
Radio Telemetry Monitoring Automation Citywide - Wastewater (VB58)	848.5	200.0	350.0	275.0	450.0	2,123.5	118
Reclamation Regulatory Compliance (VB59)	250.0	-	-	-	-	250.0	119
RWDS Improvements (VB52)	4,342.1	1,500.0	1,500.0	1,500.0	1,500.0	10,342.1	119
Sanitary Sewer Lateral Rehabilitation (VB67)	65.9	50.0	50.0	50.0	50.0	265.9	119
Secondary Clarifier Rehabilitation (VB64)	845.3	-	-	-	-	845.3	120
SROG Operations & Solids Improvements (VB57)	1,460.0	-	-	-	-	1,460.0	120
SROG Sewage Transmission Line (VB50)	20,498.5	-	-	-	-	20,498.5	120
SROG SRO / SAI Interceptor Odor Control (VB60)	10,714.7	-	-	-	-	10,714.7	121
* SROG Wastewater Treatment Plant (YB81)	162.4	-	-	-	-	162.4	122
* SROG Wastewater Treatment Plant (YC24)	1,025.0	-	-	-	-	1,025.0	121
* SROG Wastewater Treatment Plant (YD24)	2,000.0	1,900.0	750.0	482.3	1,000.0	6,132.3	121
SROG Water Reclamation Capacity Management (VB55)	447.5	-	-	-	-	447.5	122
Wastewater Collection System Improvements (VB62)	18,705.4	3,000.0	3,993.5	2,750.0	2,225.0	30,673.9	122
Wastewater Impact Fees (VC01)	17.8	-	-	-	-	17.8	123
Wastewater Oversizing (VB53)	310.9	-	50.0	-	100.0	460.9	123
Wastewater Technology Master Plan (VB66)	230.7	-	100.0	-	-	330.7	123
Wastewater Treatment Facility Improvements (VD01)	3,950.0	2,311.4	775.0	1,250.0	1,550.0	9,836.4	124
Water Reclamation Participation Program (VB56)	1,215.3	-	750.0	500.0	-	2,465.3	124
Water Reclamation Security Enhancements (VB54)	625.8	300.0	400.0	350.0	325.0	2,000.8	124
<b>Water Improvements</b>							
Advance Water Treatment Plant Membranes - Water (WB65)	70.8	-	70.8	143.4	96.2	381.2	125
Air Park Zone 4 Water Transmission Main (WD02)	250.0	1,450.0	-	-	-	1,700.0	125
Booster Pump Station 42B Infrastructure Improvements (WB67)	3,845.5	-	-	-	-	3,845.5	125
Booster Station Upgrades (WB76)	4,575.1	750.0	550.0	500.0	1,596.6	7,971.7	125
Campus/Central Arizona Project Drainage & Paving Improvements (Water) (WB73)	550.8	-	-	-	-	550.8	126
Chaparral Water Treatment Plant Intake Screens (WB62)	1,295.4	-	-	-	-	1,295.4	126
Chaparral Water Treatment Plant Pretreatment (WB56)	2,339.0	-	-	-	-	2,339.0	126
Cross Roads East Water (WB50)	4,605.2	-	-	-	-	4,605.2	127
Deep Well Recharge/Recovery Facilities (WB61)	4,192.6	-	-	-	-	4,192.6	127

\*Recurring Capital Maintenance Projects.

# Project Descriptions

(In thousands of dollars)

Project	FY2016/17 Adopted	FY2017/18 Forecast	FY2018/19 Forecast	FY2019/20 Forecast	FY2020/21 Forecast	Total	Page #
<b>Water Management</b>							
<b>Water Improvements</b>							
East Dynamite Area Transmission Main (WD01)	450.0	4,350.0	-	-	-	4,800.0	127
Frank Lloyd Wright 24-inch Transmission Main & Booster Station 83B Modifications (WC03)	15,365.2	-	-	-	-	15,365.2	128
Hayden & Thunderbird Roads Waterline Replacement (WC06)	2,770.5	-	-	-	-	2,770.5	128
HVID - Harquahala Valley Irrigation District - Scottsdale Share (WC04)	1,150.0	-	-	-	-	1,150.0	128
Irrigation Water Distribution System Improvements (WB57)	3,321.6	1,000.0	-	-	-	4,321.6	129
IWDS / Harquahala Valley Irrigation District Property - Desert Mountain Golf Club (WB69)	16,325.9	-	-	-	-	16,325.9	129
IWDS / Harquahala Valley Irrigation District Property - Scottsdale National Golf Club (WB80)	4,194.7	-	-	-	-	4,194.7	129
Master Plan - Water (WB78)	721.9	-	520.0	-	-	1,241.9	130
Radio Telemetry Monitoring Automation Citywide - Water (WB60)	898.9	75.0	290.0	215.0	220.4	1,699.3	130
Regional Recharge Basins (WB74)	4,810.7	2,600.0	2,600.0	-	-	10,010.7	130
Removal and Replacement of Sodium Hypochlorite Generation System (WB64)	30.2	-	-	-	-	30.2	131
Site 71 Well Site and Water Booster Station (WB63)	1,170.0	-	-	-	-	1,170.0	131
Thomas Groundwater Treatment Facility (WC07)	25,100.0	-	-	-	-	25,100.0	132
Water and Sewer System Optimization (WB55)	571.0	-	-	-	-	571.0	132
Water Campus Vadose Well Rehabilitation (WB79)	510.0	155.0	50.0	50.0	285.0	1,050.0	132
Water Distribution System Improvements (WB77)	14,117.2	5,400.0	6,250.0	6,100.0	5,750.0	37,617.2	133
Water Impact Fees (WC01)	17.8	-	-	-	-	17.8	133
Water Meter Replacement Program (WB66)	2,950.8	2,230.0	2,230.0	2,230.0	2,230.0	11,870.8	133
Water Oversizing (WB53)	277.4	-	-	-	-	277.4	134
Water Participation Program (WB54)	1,292.9	-	750.0	-	-	2,042.9	134
Water Quality Regulatory Compliance Programs (WB52)	14.6	-	-	-	-	14.6	134
Water Resources Impact Fees (WC02)	17.8	-	-	-	-	17.8	135
* Water System Security Enhancements (YC26)	46.8	-	-	-	-	46.8	135
* Water System Security Enhancements (YD26)	430.0	410.0	280.0	400.0	450.0	1,970.0	135
Water Technology Master Plan (WB72)	116.9	-	150.0	-	-	266.9	135
Water Treatment Facility Improvements (WD04)	6,350.0	3,375.0	3,100.0	2,950.0	2,425.0	18,200.0	136
Water Treatment Plant Membranes (WB71)	2,074.2	1,127.5	1,127.5	379.5	379.5	5,088.2	136
Well Sites (WB75)	1,012.3	-	-	-	-	1,012.3	136
Well Sites Rehabilitation (WB51)	1,975.3	-	-	250.0	250.0	2,475.3	136
WestWorld Improvements (WB58)	712.2	-	-	-	750.0	1,462.2	137
Zone 14/16 Water Improvements Phase 2 (WB70)	14,251.2	-	-	-	-	14,251.2	137
Zone 2 Water System Improvements (WC05)	9,291.7	-	-	-	-	9,291.7	137
Zone 3W Water System Improvements (WD03)	425.0	4,350.0	-	-	-	4,775.0	138

\*Recurring Capital Maintenance Projects.



**Advance Water Treatment Plant Membranes - Wastewater - (VB69)**

**Est. Completion:** 12/21      **ITD Expenditures (Thru 03/16):** 0.5      **Total Project Cost:** 2,159.8

**Location:** Scottsdale Water Campus

**Project Type:** Construction Related

**Description:** Replace water treatment membranes at the Advanced Water Treatment (AWT) Plant at the Water Campus.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	400.7	-	401.2	812.6	544.8	2,159.3
<b>Total:</b>	<b>400.7</b>	<b>-</b>	<b>401.2</b>	<b>812.6</b>	<b>544.8</b>	<b>2,159.3</b>

**Campus Headworks Screen - (VB65)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 794.2      **Total Project Cost:** 890.9

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Design and construct sewer lines, treatment plant work and rehabilitate sewer manholes in the aging sewer system per the Asset Management Program. Many of the sewer lines in the city have been in use for well over 30 years. The city is being proactive to avoid serious problems in the sewer system resulting from the aging infrastructure. In conjunction with the Asset Management Program, sewer lines will be videotaped to find potential problems, and design will be initiated to correct any identified problems. Additionally, this project will replace undersized sewer lines and provide new infrastructure to support higher intensity development associated with Downtown revitalization. This project will also include minor design, maintenance and construction modifications to various wastewater treatment plant infrastructure and lift stations as driven by findings of the division's System Asset Management Program.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	96.7	-	-	-	-	96.7
<b>Total:</b>	<b>96.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>96.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Campus/Central Arizona Project Drainage & Paving Improvements (Wastewater) - (VB68) ①**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 171.0                      **Total Project Cost:** 2,400.0  
**Location:** Pima Road and Hualapai Drive  
**Project Type:** Construction Related

**Description:** Design and construct engineered drainage features throughout the water campus property to collect and direct on-site stormwater to identified discharge points. Uncontrolled runoff currently contributes to nuisance flooding and risk to infrastructure during heavy rain. On-site paving improvements have been identified to improve staff mobility throughout the site which contributes to improved safety, security and operational reliability.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	2,229.0	-	-	-	-	2,229.0
<b>Total:</b>	<b>2,229.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,229.0</b>

**Cross Roads East Wastewater - (VB51)**

**Est. Completion:** 06/20                      **ITD Expenditures (Thru 03/16):** 282.9                      **Total Project Cost:** 4,212.9  
**Location:** 74th Street to Hayden Road, North of the 101 Loop  
**Project Type:** Construction Related

**Description:** Construct sewer lines within the area consistent with a development agreement. Advanced construction of streets within the Core North/Core South area by the city will require concurrent installation of sewer lines to provide service for future adjacent development.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Development Fees	3,830.0	-	-	-	-	3,830.0
Sewer Rates	100.0	-	-	-	-	100.0
<b>Total:</b>	<b>3,930.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,930.0</b>

**Downtown Stormwater Pump Station Rehabilitation - (VD02)**

**Est. Completion:** 06/21                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 1,278.8  
**Location:** Stormwater pump station located at the Civic Center Library  
**Project Type:** Construction Related

**Description:** Replace the stormwater pumping equipment located at the downtown Civic Center Library. The pump station features the original equipment which has exceeded its useful service life.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	1,278.8	-	-	-	-	1,278.8
<b>Total:</b>	<b>1,278.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,278.8</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Gainey Ranch WWTP Reuse Recharge - (VC03)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 401.6  
**Location:** Mountain View Road and Scottsdale Road  
**Project Type:** Construction Related

**Description:** Develop treatment plant modifications to better match end use needs by optimizing reuse production.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	401.6	-	-	-	-	401.6
<b>Total:</b>	<b>401.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>401.6</b>

**Hydrogen Sulfide Mitigation - (VB63)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 4,163.7      **Total Project Cost:** 5,011.7  
**Location:** Citywide  
**Project Type:** Construction Related

**Description:** Design and construct new odor control facilities at both the Sewer Pumpback System and Water Campus Headworks facility. The current odor control systems are approaching the end of their useful service life, thereby requiring extensive maintenance.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	678.7	-	-	-	-	678.7
Sewer Rates	169.3	-	-	-	-	169.3
<b>Total:</b>	<b>848.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>848.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Master Plan Water Reclamation - (VB70)**

**Est. Completion:** 06/20                      **ITD Expenditures (Thru 03/16):** 383.3                      **Total Project Cost:** 1,295.5

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Update master plan for wastewater system management needs including federal regulatory impacts and capital project needs. Master planning activities include condition assessment analyses of existing sewer systems, lift stations, and treatment facilities, as well as updating operating manuals and standard operating procedures. Provides for facility planning, land use planning, and project cost estimating. Facilitates updates to the Water Reclamation Infrastructure Improvement Plan (IIP) needed define water development fees associated with growth.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	562.2	-	350.0	-	-	912.2
<b>Total:</b>	<b>562.2</b>	<b>-</b>	<b>350.0</b>	<b>-</b>	<b>-</b>	<b>912.2</b>

**Northeast Sewer Pumpback Station Sewerline Replacement, Site Wall to ADOT ROW - (VB61) ①**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 629.5                      **Total Project Cost:** 986.0

**Location:** Northeast Sewer Pumpback Station, at 87th Street and Sweetwater

**Project Type:** Construction Related

**Description:** Remove and replace existing force main pipeline from exterior of perimeter wall of Northeast Sewer Pumpback Station, under existing soundwall along Arizona Department of Transportation (ADOT) right of way (ROW).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	221.4	-	-	-	-	221.4
Sewer Rates	135.1	-	-	-	-	135.1
<b>Total:</b>	<b>356.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>356.5</b>

**Radio Telemetry Monitoring Automation Citywide - Wastewater - (VB58) ①**

**Est. Completion:** 06/21                      **ITD Expenditures (Thru 03/16):** 1,657.0                      **Total Project Cost:** 3,780.5

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Construct radio telemetry facilities at new and existing wastewater facilities to continue to improve operational efficiency through automation.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	848.5	200.0	350.0	275.0	450.0	2,123.5
<b>Total:</b>	<b>848.5</b>	<b>200.0</b>	<b>350.0</b>	<b>275.0</b>	<b>450.0</b>	<b>2,123.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Reclamation Regulatory Compliance - (VB59)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 250.0

**Location:** Scottsdale Water Campus

**Project Type:** Technology Related

**Description:** Install a regulatory compliance software program that will automate and streamline the city's aquifer protection and underground storage facility permits requirements. The program will import external laboratory results from the city's laboratory information system and track individual contaminant results and automatically provide alerts. The program will provide report writing functions that meet the current Arizona Department of Environmental Quality (ADEQ) self-monitoring requirements. This program will also be operated to track and manage the division's air quality permits.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	250.0	-	-	-	-	250.0
<b>Total:</b>	<b>250.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250.0</b>

**RWDS Improvements - (VB52)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 9,482.9      **Total Project Cost:** 19,825.0

**Location:** North of Central Arizona Project Canal

**Project Type:** Construction Related

**Description:** Improve the Reclaimed Water Distribution System (RWDS) pipeline pump stations and reservoirs. This project will be fully funded by the golf courses receiving reclaimed effluent from the Water Campus through the RWDS.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Reclaimed Water Distribution System Fund	4,342.1	1,500.0	1,500.0	1,500.0	1,500.0	10,342.1
<b>Total:</b>	<b>4,342.1</b>	<b>1,500.0</b>	<b>1,500.0</b>	<b>1,500.0</b>	<b>1,500.0</b>	<b>10,342.1</b>

**Sanitary Sewer Lateral Rehabilitation - (VB67)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 109.1      **Total Project Cost:** 375.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Rehabilitate or replace failing sewer service laterals located within the public right-of-way.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	65.9	50.0	50.0	50.0	50.0	265.9
<b>Total:</b>	<b>65.9</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>265.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Secondary Clarifier Rehabilitation - (VB64)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,611.9      **Total Project Cost:** 2,457.2

**Location:** Scottsdale Water Campus

**Project Type:** Construction Related

**Description:** Design and rehabilitate three secondary sewage clarifiers at the Water Campus. Due to the corrosive environment of the area within each clarifier, much of the internal structure has deteriorated and needs to be replaced to become fully operational. A portion of this project also involves the construction of a solids collection mechanism within each clarifier that will improve worker safety during routine operation.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	708.3	-	-	-	-	708.3
Sewer Rates	137.0	-	-	-	-	137.0
<b>Total:</b>	<b>845.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>845.3</b>

**SROG Operations & Solids Improvements - (VB57)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 40.0      **Total Project Cost:** 1,500.0

**Location:** Wastewater Treatment Plant, 91st Avenue in Phoenix, AZ

**Project Type:** Construction Related

**Description:** Improve the capacity to handle additional solids due to new technology being utilized at the 91st Avenue Wastewater Treatment Plant located in Phoenix. The City of Scottsdale's proportionate share of cost is derived through an existing intergovernmental agreement with the Multi-City Sub-Regional Operating Group (SROG).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	1,460.0	-	-	-	-	1,460.0
<b>Total:</b>	<b>1,460.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,460.0</b>

**SROG Sewage Transmission Line - (VB50)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 9,968.4      **Total Project Cost:** 30,466.9

**Location:** Wastewater Treatment Plant, 91st Avenue in Phoenix, AZ

**Project Type:** Construction Related

**Description:** Modify and improve the Salt River Outfall (SRO) sewer line which transmits sewer flow approximately 26 miles from Scottsdale's city limits to the Multi-City 91st Avenue Wastewater Treatment Plant located in Phoenix. The City of Scottsdale's proportionate cost share is derived through existing intergovernmental agreements with the Multi-City Sub-Regional Operating Group (SROG).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	13,000.0	-	-	-	-	13,000.0
Sewer Rates	7,498.5	-	-	-	-	7,498.5
<b>Total:</b>	<b>20,498.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>20,498.5</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**SROG SRO / SAI Interceptor Odor Control - (VB60)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 45.3                      **Total Project Cost:** 10,760.0

**Location:** Princess Meter Station, Curry Road and Stadem Drive in the Salt River Outfall (SRO) interceptor

**Project Type:** Construction Related

**Description:** Complete a study and plan out the technology, timing and cost for odor control on the overall Salt River Outfall (SRO) interceptor system. The pipeline system is the major wastewater interceptor system conveying wastewater for the 5 Sub-Regional Operating Group (SROG) Partner Cities across the valley to the 91st Avenue Wastewater Treatment Plant.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	10,714.7	-	-	-	-	10,714.7
<b>Total:</b>	<b>10,714.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10,714.7</b>

**SROG Wastewater Treatment Plant - (YC24) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 1,025.0

**Location:** Wastewater Treatment Plant, 91st Avenue in Phoenix, AZ

**Project Type:** Construction Related

**Description:** Modify and improve the Multi-City 91st Avenue Wastewater Treatment Plant located in Phoenix. The City of Scottsdale's proportionate cost share is derived through existing intergovernmental agreements with the Multi-City Sub-Regional Operating Group (SROG).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	1,025.0	-	-	-	-	1,025.0
<b>Total:</b>	<b>1,025.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,025.0</b>

**SROG Wastewater Treatment Plant - (YD24) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 6,132.3

**Location:** Wastewater Treatment Plant, 91st Avenue in Phoenix, AZ

**Project Type:** Construction Related

**Description:** Modify and improve the Multi-City 91st Avenue Wastewater Treatment Plant located in Phoenix. The City of Scottsdale's proportionate cost share is derived through existing intergovernmental agreements with the Multi-City Sub-Regional Operating Group (SROG).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	2,000.0	1,900.0	750.0	482.3	1,000.0	6,132.3
<b>Total:</b>	<b>2,000.0</b>	<b>1,900.0</b>	<b>750.0</b>	<b>482.3</b>	<b>1,000.0</b>	<b>6,132.3</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**SROG Wastewater Treatment Plant - (YB81) ②**

**Est. Completion:** N/A                      **ITD Expenditures (Thru 03/16):** 337.6                      **Total Project Cost:** 500.0  
**Location:** Wastewater Treatment Plant, 91st Avenue in Phoenix, AZ  
**Project Type:** Construction Related  
**Description:** Modify and improve the Multi-City 91st Avenue Wastewater Treatment Plant located in Phoenix. The City of Scottsdale's proportionate cost share is derived through existing intergovernmental agreements with the Multi-City Sub-Regional Operating Group (SROG).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	162.4	-	-	-	-	162.4
<b>Total:</b>	<b>162.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>162.4</b>

**SROG Water Reclamation Capacity Management - (VB55)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 568.8                      **Total Project Cost:** 1,016.3  
**Location:** Wastewater Treatment Plant, 91st Avenue in Phoenix, AZ  
**Project Type:** Construction Related  
**Description:** Expand, modify and improve the regional wastewater conveyance facilities according to existing intergovernmental agreements with the Sub-Regional Operating Group (SROG). The City of Scottsdale will continue to send a portion of its wastewater to the regional 91st Avenue Wastewater Treatment Plant located in the City of Phoenix. Although the City of Scottsdale Water Reclamation Plant at the Water Campus was recently expanded, the city will continue to send the majority of its wastewater generated south of Doubletree Ranch Road alignment to the regional 91st Avenue Wastewater Treatment Plant.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	447.5	-	-	-	-	447.5
<b>Total:</b>	<b>447.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>447.5</b>

**Wastewater Collection System Improvements - (VB62) ①**

**Est. Completion:** 06/25                      **ITD Expenditures (Thru 03/16):** 8,082.3                      **Total Project Cost:** 38,756.2  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Design and construct sewer lines, complete treatment plant work and rehabilitate sewer manholes in the aging sewer system per the Asset Management Program. Many of the sewer lines in the city have been in use for well over 30 years. The city is being proactive to avoid serious problems in the sewer system resulting from the aging infrastructure. In conjunction with the Asset Management Program, sewer lines will be videotaped to find potential problems, and design will be initiated to correct any identified problems. Additionally, this project will replace undersized sewer lines and provide new infrastructure to support redevelopment associated with downtown revitalization.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	6,016.2	-	-	-	-	6,016.2
Sewer Development Fees	661.2	-	-	-	-	661.2
Sewer Rates	12,028.0	3,000.0	3,993.5	2,750.0	2,225.0	23,996.5
<b>Total:</b>	<b>18,705.4</b>	<b>3,000.0</b>	<b>3,993.5</b>	<b>2,750.0</b>	<b>2,225.0</b>	<b>30,673.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**Wastewater Impact Fees - (VC01)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 2.2                      **Total Project Cost:** 20.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Sewer fee study and audit requirements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Development Fees	17.8	-	-	-	-	17.8
<b>Total:</b>	<b>17.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17.8</b>

**Wastewater Oversizing - (VB53)**

**Est. Completion:** 06/21                      **ITD Expenditures (Thru 03/16):** 1,924.7                      **Total Project Cost:** 2,385.6  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Oversize city lines and facilities to meet future ultimate capacity to Master Plan standards. The money is used when a resident/developer is required by City Code to extend a sewer line (typically an 8" sewer line) at the resident/developer cost, and the city wishes to use that opportunity to upsize the line to accommodate regional flows. The city pays the cost difference between the upsized line and the price the resident/developer would have paid to extend the sewer line in-kind.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	310.9	-	50.0	-	100.0	460.9
<b>Total:</b>	<b>310.9</b>	<b>-</b>	<b>50.0</b>	<b>-</b>	<b>100.0</b>	<b>460.9</b>

**Wastewater Technology Master Plan - (VB66)**

**Est. Completion:** 06/19                      **ITD Expenditures (Thru 03/16):** 9.3                      **Total Project Cost:** 340.0  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Develop a master plan to examine current capabilities and condition of our communications systems. The master plan will entail developing a roadmap to update, standardize and maintain integrated control systems including Supervisory Control and Data Acquisition (SCADA)/Telemetry infrastructure. The master plan effort will evaluate hardware/software, as well as study overall system resiliency.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	230.7	-	100.0	-	-	330.7
<b>Total:</b>	<b>230.7</b>	<b>-</b>	<b>100.0</b>	<b>-</b>	<b>-</b>	<b>330.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Wastewater Treatment Facility Improvements - (VD01)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 9,836.4

**Location:** Water Campus, Gainey Wastewater Treatment Facility

**Project Type:** Construction Related

**Description:** Design and construct treatment plant modifications at the Water Campus and the Gainey Ranch Wastewater Treatment Facility. Addresses the rehabilitation and replacement of wastewater headworks, piping, clarifiers, pumps, filters, electrical and control systems, heating, ventilation and air conditioning (HVAC) equipment, odor control infrastructure, disinfection and other chemical systems. Also provides for miscellaneous site work such as access drives, shade canopies, grading improvements, and site lighting.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	3,950.0	2,311.4	775.0	1,250.0	1,550.0	9,836.4
<b>Total:</b>	<b>3,950.0</b>	<b>2,311.4</b>	<b>775.0</b>	<b>1,250.0</b>	<b>1,550.0</b>	<b>9,836.4</b>

**Water Reclamation Participation Program - (VB56)**

**Est. Completion:** 06/20      **ITD Expenditures (Thru 03/16):** 2,134.7      **Total Project Cost:** 4,600.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Manage pay-back agreements to assist residents connecting to the city's sewer collection system. Payback for the sewer extensions will be paid back over time with interest by the residents.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	1,215.3	-	750.0	500.0	-	2,465.3
<b>Total:</b>	<b>1,215.3</b>	<b>-</b>	<b>750.0</b>	<b>500.0</b>	<b>-</b>	<b>2,465.3</b>

**Water Reclamation Security Enhancements - (VB54) ①**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 3,220.2      **Total Project Cost:** 5,221.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Enhance security at wastewater facilities throughout the city by upgrading existing prevention, detection and response systems. This project results from recommendations developed by a security survey of all wastewater facilities in the city. Enhancements to existing security measures were identified in the areas of access control, security personnel, surveillance, intrusion detection, site hardening and back-up power.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Sewer Rates	625.8	300.0	400.0	350.0	325.0	2,000.8
<b>Total:</b>	<b>625.8</b>	<b>300.0</b>	<b>400.0</b>	<b>350.0</b>	<b>325.0</b>	<b>2,000.8</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Advance Water Treatment Plant Membranes - Water - (WB65)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 381.2  
**Location:** Scottsdale Water Campus  
**Project Type:** Construction Related  
**Description:** Replace water treatment membranes at the Advanced Water Treatment (AWT) Plant at the Water Campus.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	70.8	-	70.8	143.4	96.2	381.2
<b>Total:</b>	<b>70.8</b>	<b>-</b>	<b>70.8</b>	<b>143.4</b>	<b>96.2</b>	<b>381.2</b>

**Air Park Zone 4 Water Transmission Main - (WD02)**

**Est. Completion:** 06/19      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,700.0  
**Location:** Bell Road to Pima Road along the east side of the Loop 101 Corridor  
**Project Type:** Construction Related  
**Description:** Design and construct 12 inch transmission piping from Bell Road to Pima Road along the east side of the Loop 101 Corridor.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	150.0	1,350.0	-	-	-	1,500.0
Water Rates	100.0	100.0	-	-	-	200.0
<b>Total:</b>	<b>250.0</b>	<b>1,450.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,700.0</b>

**Booster Pump Station 42B Infrastructure Improvements - (WB67) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 369.5      **Total Project Cost:** 4,215.0  
**Location:** Jomax Road and Pima Road  
**Project Type:** Construction Related  
**Description:** Address site improvements including the replacement of electrical and mechanical infrastructure that has reached the end of its useful service life. Booster pump station 42B is located at Pima and Jomax Roads and operates at pressures approaching 250 pounds per square inch and is a vital facility for supplying potable water to this portion of the city's Water Service Area.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	3,845.5	-	-	-	-	3,845.5
<b>Total:</b>	<b>3,845.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,845.5</b>

**Booster Station Upgrades - (WB76) ①**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 4,313.0      **Total Project Cost:** 12,284.7  
**Location:** Multiple locations  
**Project Type:** Construction Related  
**Description:** Upgrade components of the water production system as needed to meet system demands. Booster pump stations are reaching capacity and additional pumps are required to meet demands. At some of the booster pump stations the equipment is old and parts are no longer available, therefore, new equipment is required.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	4,575.1	750.0	550.0	500.0	1,596.6	7,971.7
<b>Total:</b>	<b>4,575.1</b>	<b>750.0</b>	<b>550.0</b>	<b>500.0</b>	<b>1,596.6</b>	<b>7,971.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Campus/Central Arizona Project Drainage & Paving Improvements (Water) - (WB73) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 49.2      **Total Project Cost:** 600.0

**Location:** Pima Road and Hualapai Drive

**Project Type:** Construction Related

**Description:** Design and construct engineered drainage features throughout the Central Arizona Project (CAP) Water Treatment Plant property to collect and direct on-site stormwater to identified discharge points. Uncontrolled runoff currently contributes to nuisance flooding and risk to infrastructure during rainfall. On-site paving improvements have been identified to improve staff mobility throughout the site which contributes to improved safety, security and operational reliability.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	550.8	-	-	-	-	550.8
<b>Total:</b>	<b>550.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>550.8</b>

**Chaparral Water Treatment Plant Intake Screens - (WB62) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,354.6      **Total Project Cost:** 2,650.0

**Location:** Chaparral Water Treatment Plant

**Project Type:** Construction Related

**Description:** Design and construct pretreatment infrastructure to meet stricter water quality regulations and improve operational performance given new challenges posed by deteriorating source water quality. Funds programmed are primarily targeted at immediately addressing infrastructure and operational needs to achieve compliance with tightened water quality rules.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	1,295.4	-	-	-	-	1,295.4
<b>Total:</b>	<b>1,295.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,295.4</b>

**Chaparral Water Treatment Plant Pretreatment - (WB56) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 7,815.1      **Total Project Cost:** 10,154.1

**Location:** Chaparral Water Treatment Plant

**Project Type:** Construction Related

**Description:** Design and construct pretreatment infrastructure to meet stricter water quality regulations and improve operational performance given new challenges posed by deteriorating source water quality. Funds programmed are primarily targeted at immediately addressing infrastructure and operational needs to achieve compliance with tightened water quality rules.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	2,339.0	-	-	-	-	2,339.0
<b>Total:</b>	<b>2,339.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,339.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Cross Roads East Water - (WB50)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 2,426.0      **Total Project Cost:** 7,031.2

**Location:** 74th Street to Hayden Road, North of the 101 Loop.

**Project Type:** Construction Related

**Description:** Construct water lines within the area consistent with a development agreement. Advance construction of streets within the Core North and Core South area by the city that will require concurrent installation of water lines to provide service for future adjacent development. These lines are normally installed by the development community and will be reimbursed with development fees.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Development Fees	4,468.3	-	-	-	-	4,468.3
Water Rates	136.9	-	-	-	-	136.9
<b>Total:</b>	<b>4,605.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,605.2</b>

**Deep Well Recharge/Recovery Facilities - (WB61)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 907.3      **Total Project Cost:** 5,099.9

**Location:** Multiple locations

**Project Type:** Construction Related

**Description:** Design and construct deep well water recharge and recovery facilities to ensure the long-term sustainability of the city's northern well field. The city will continue to use wells in its system to supply water to the community. For the city's 100 year water supply, the city is required to recharge water into its aquifers. This program will determine the best areas for this to occur. Initial testing has been completed, but the city would like to explore options further north of the Water Campus for this procedure.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	4,192.6	-	-	-	-	4,192.6
<b>Total:</b>	<b>4,192.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,192.6</b>

**East Dynamite Area Transmission Main - (WD01)**

**Est. Completion:** 06/19      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 4,800.0

**Location:** East Dynamite Corridor and 116th Street

**Project Type:** Construction Related

**Description:** Design and construct backbone piping in East Dynamite Area along 116th Street to support growth.

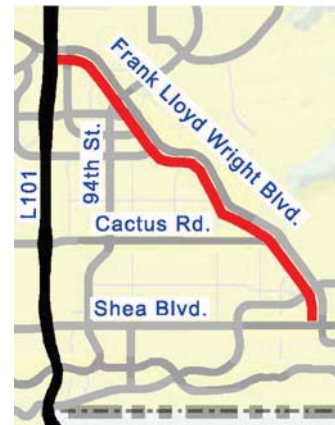
Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	350.0	4,250.0	-	-	-	4,600.0
Water Rates	100.0	100.0	-	-	-	200.0
<b>Total:</b>	<b>450.0</b>	<b>4,350.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,800.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Frank Lloyd Wright 24-inch Transmission Main & Booster Station 83B Modifications - (WC03)**

**Est. Completion:** 06/18                      **ITD Expenditures (Thru 03/16):** 34.8                      **Total Project Cost:** 15,400.0  
**Location:** Frank Lloyd Wright corridor from the vicinity of the Loop 101 and Bell Road to Shea Boulevard  
**Project Type:** Construction Related

**Description:** Design and construct approximately four miles of large diameter water transmission main in the Frank Lloyd Wright corridor east of the Loop 101. Improve the pumping capacity at Booster Station 83B to address existing low operational capacities and pressures in the east Shea portion of the service area.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	15,166.0	-	-	-	-	15,166.0
Water Rates	199.2	-	-	-	-	199.2
<b>Total:</b>	<b>15,365.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,365.2</b>

**Hayden & Thunderbird Roads Waterline Replacement - (WC06)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 2,399.5                      **Total Project Cost:** 5,170.0  
**Location:** A residential community bounded by Thunderbird Road to the north, Sweetwater Avenue to the south, Hayden Road to the east and 76th Street to the west.  
**Project Type:** Construction Related  
**Description:** Replace existing asbestos cement pipe (ACP), currently located within existing backyard easements and not in accordance with city standards.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	2,770.5	-	-	-	-	2,770.5
<b>Total:</b>	<b>2,770.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,770.5</b>

**HVID - Harquahala Valley Irrigation District - Scottsdale Share - (WC04)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 1,150.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Installation of water lines and recharge of wells.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	1,150.0	-	-	-	-	1,150.0
<b>Total:</b>	<b>1,150.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,150.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Irrigation Water Distribution System Improvements - (WB57)**

**Est. Completion:** 06/18      **ITD Expenditures (Thru 03/16):** 428.4      **Total Project Cost:** 4,750.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Improve the Irrigation Water Distribution System (IWDS) pipeline, pump stations, reservoirs and recharge wells. This project will be fully funded by the golf courses receiving Central Arizona Project water from the Water Campus through the IWDS.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Irrigation Water Distribution System	3,321.6	1,000.0	-	-	-	4,321.6
<b>Total:</b>	<b>3,321.6</b>	<b>1,000.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,321.6</b>

**IWDS / Harquahala Valley Irrigation District Property - Desert Mountain Golf Club - (WB69)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 3,766.1      **Total Project Cost:** 20,092.0

**Location:** Irrigation Water Distribution System / Harquahala Valley Irrigation District Property

**Project Type:** Construction Related

**Description:** Design and construct groundwater pumping wells and a transmission pipeline from the wells to the Central Arizona Project (CAP) canal in the Harquahala Valley. This project will be fully funded by the golf courses receiving water through the Irrigation Water Distribution System (IWDS).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Irrigation Water Distribution	16,325.9	-	-	-	-	16,325.9
<b>Total:</b>	<b>16,325.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16,325.9</b>

**IWDS / Harquahala Valley Irrigation District Property - Scottsdale National Golf Club - (WB80)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 150.3      **Total Project Cost:** 4,345.0

**Location:** Irrigation Water Distribution System / Harquahala Valley Irrigation District Property

**Project Type:** Construction Related

**Description:** Design and construct groundwater pumping wells and a transmission pipeline from the wells to the Central Arizona Project (CAP) canal in the Harquahala Valley. This project will be fully funded by the golf courses receiving water through the Irrigation Water Distribution System (IWDS).

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Irrigation Water Distribution	4,194.7	-	-	-	-	4,194.7
<b>Total:</b>	<b>4,194.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,194.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Master Plan - Water - (WB78)**

**Est. Completion:** 06/20                      **ITD Expenditures (Thru 03/16):** 180.8                      **Total Project Cost:** 1,422.7

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Updates master plan to determine water system management needs including federal regulatory impacts and capital project needs. Master planning activities include condition assessment analyses of existing pipelines, reservoirs, pump stations and treatment facilities, as well as updating operating manuals and standard operating procedures. Provides for facility planning, land use planning, and project cost estimating. Facilitates updates to the Water Infrastructure Improvement Plan (WIIP) needed define water development fees associated with growth.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	721.9	-	520.0	-	-	1,241.9
<b>Total:</b>	<b>721.9</b>	<b>-</b>	<b>520.0</b>	<b>-</b>	<b>-</b>	<b>1,241.9</b>

**Radio Telemetry Monitoring Automation Citywide - Water - (WB60)**

**Est. Completion:** 06/21                      **ITD Expenditures (Thru 03/16):** 2,215.5                      **Total Project Cost:** 3,914.8

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Construct radio telemetry facilities at new and existing water facilities to continue to improve operational efficiency through automation.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	898.9	75.0	290.0	215.0	220.4	1,699.3
<b>Total:</b>	<b>898.9</b>	<b>75.0</b>	<b>290.0</b>	<b>215.0</b>	<b>220.4</b>	<b>1,699.3</b>

**Regional Recharge Basins - (WB74)**

**Est. Completion:** 06/19                      **ITD Expenditures (Thru 03/16):** 4,059.3                      **Total Project Cost:** 14,070.0

**Location:** Various locations

**Project Type:** Construction Related

**Description:** Recharge the city's unused allocation of Central Arizona Project (CAP) water in the Central Arizona Water Conservation District's (CAWCD) established Tonopah Desert Recharge Project, the Superstition Mountain Recharge Project, the Granite Reef Underground Storage Project and the Salt River Project Groundwater Savings Facility in light of forecasted persistent drought conditions and projected rising CAP rates. These facilities provide cost effective direct recharge and banks water storage credits that can be used to offset pumping used to meet customer demand during peak summer months or extended periods of drought. Pursuing this strategy now is critical since changes to state rules are anticipated as early as 2016 which may restrict the practice of recharging outside each water provider's own underlying aquifers.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	4,810.7	2,600.0	2,600.0	-	-	10,010.7
<b>Total:</b>	<b>4,810.7</b>	<b>2,600.0</b>	<b>2,600.0</b>	<b>-</b>	<b>-</b>	<b>10,010.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.



**Removal and Replacement of Sodium Hypochlorite Generation System - (WB64) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,019.8      **Total Project Cost:** 1,050.0

**Location:** Chaparral Water Treatment Plant

**Project Type:** Construction Related

**Description:** Upgrade the on-site chlorine generation system at the Chaparral Water Treatment Plant. The Assessment Management Program has identified that improvements are necessary to maintain disinfection capabilities at the plant. A newer technology will alleviate safety issues with the on-site generation of chlorine.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	30.2	-	-	-	-	30.2
<b>Total:</b>	<b>30.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30.2</b>

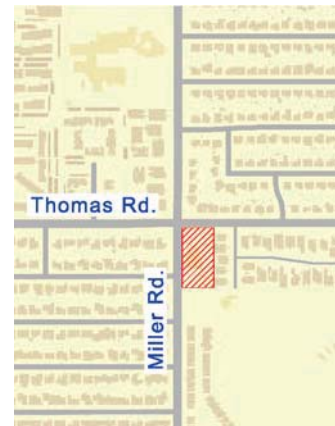
**Site 71 Well Site and Water Booster Station - (WB63) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 3,830.0      **Total Project Cost:** 5,000.0

**Location:** Site 71 Well and Booster Pump Station

**Project Type:** Construction Related

**Description:** Design of a new well site and booster pump station that will replace the original on-site well constructed in 1959 on the southeast corner of Thomas Road and Miller Road. The new well is an integral component of the North Indian Bend Wash (NIBW) Superfund remedy.



Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	1,170.0	-	-	-	-	1,170.0
<b>Total:</b>	<b>1,170.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,170.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Thomas Groundwater Treatment Facility - (WC07)**

**Est. Completion:** 06/19      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 25,100.0

**Location:** 8600 East Thomas Road

**Project Type:** Construction Related

**Description:** Design and construct a new pretreatment facility to receive and treat a side stream of product water discharged from the adjacent Central Groundwater Treatment Facility (CGTF). The naturally occurring hardness in the wells will be reduced to levels similar to the rest of the water distribution system. The treatment of the water will allow greater use of this precious resource and to meet potential future regulations.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	7,000.0	-	-	-	-	7,000.0
Water Rates	18,100.0	-	-	-	-	18,100.0
<b>Total:</b>	<b>25,100.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>25,100.0</b>

**Water and Sewer System Optimization - (WB55) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 1,487.6      **Total Project Cost:** 2,058.6

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Develop optimization tools and strategies to prioritize surface water usage over well water usage, blending requirements and strategies overall water quality conditions and challenges, varying seasonal demands reliability, redundancy and fire flows and energy usage and costs.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	571.0	-	-	-	-	571.0
<b>Total:</b>	<b>571.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>571.0</b>

**Water Campus Vadose Well Rehabilitation - (WB79)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,050.0

**Location:** Scottsdale Water Campus

**Project Type:** Construction Related

**Description:** Provides for ongoing rehabilitation of Vadose Zone recharge wells at the Water Campus to cost effectively extend the useful life of these aging assets. The Vadose Well complex at the Water Campus serves to recharge advanced treated water for the purposes of future groundwater withdrawals. Systematic rehabilitation of the existing recharge wells will reinforce this sustainable practice.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	510.0	155.0	50.0	50.0	285.0	1,050.0
<b>Total:</b>	<b>510.0</b>	<b>155.0</b>	<b>50.0</b>	<b>50.0</b>	<b>285.0</b>	<b>1,050.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Water Distribution System Improvements - (WB77) ①**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 13,587.0      **Total Project Cost:** 51,204.2

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Improve the water distribution system due to system aging, and increasing demands attributed to downtown revitalization. The project includes replacement of mains, pressure regulating valves, meters and other valves, as well as the design and construction of new water mains at various locations throughout the distribution system to improve service and to reduce operating cost. Replacement of existing small mains (4-inches and smaller) is required to meet fire flow requirements as set forth by ordinance. This project will also include minor design, maintenance and construction modifications to various water treatment plant infrastructure, pump stations and storage tanks as driven by findings of the division's System Asset Management Program.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	14,117.2	5,400.0	6,250.0	6,100.0	5,750.0	37,617.2
<b>Total:</b>	<b>14,117.2</b>	<b>5,400.0</b>	<b>6,250.0</b>	<b>6,100.0</b>	<b>5,750.0</b>	<b>37,617.2</b>

**Water Impact Fees - (WC01)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 2.2      **Total Project Cost:** 20.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Water fee study and audit requirements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Development Fees	17.8	-	-	-	-	17.8
<b>Total:</b>	<b>17.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17.8</b>

**Water Meter Replacement Program - (WB66) ①**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 2,763.2      **Total Project Cost:** 14,634.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Purchase and install automated water meter equipment. The division is in the process of a multi-year transition from conventional-read water meters to automated metering devices for all customers.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	2,950.8	2,230.0	2,230.0	2,230.0	2,230.0	11,870.8
<b>Total:</b>	<b>2,950.8</b>	<b>2,230.0</b>	<b>2,230.0</b>	<b>2,230.0</b>	<b>2,230.0</b>	<b>11,870.8</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**Water Oversizing - (WB53)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 7,927.1                      **Total Project Cost:** 8,204.5

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Provides funds for the city to oversize lines and facilities to meet future ultimate capacity to Master Plan standards. The money is used when a resident/developer is required by City Code to extend a water line (typically an 8" water line) at the resident/developer cost, and the city wishes to use that opportunity to upsize the line to accommodate regional flows. The city pays the cost difference between the upsized line and the price the resident/developer would have paid to extend the water line in-kind.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	277.4	-	-	-	-	277.4
<b>Total:</b>	<b>277.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>277.4</b>

**Water Participation Program - (WB54)**

**Est. Completion:** 06/19                      **ITD Expenditures (Thru 03/16):** 707.1                      **Total Project Cost:** 2,750.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** Facilitate the extension of water lines as required by City Code. The program allows the city to administer pay-back agreements to assist single-family residences connecting to the city's water distribution system. These pay-backs are settled in the future, the funding outlays made through this program will be re-paid to the city with interest.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	1,292.9	-	750.0	-	-	2,042.9
<b>Total:</b>	<b>1,292.9</b>	<b>-</b>	<b>750.0</b>	<b>-</b>	<b>-</b>	<b>2,042.9</b>

**Water Quality Regulatory Compliance Programs - (WB52)**

**Est. Completion:** 06/17                      **ITD Expenditures (Thru 03/16):** 1,526.8                      **Total Project Cost:** 1,541.4

**Location:** Scottsdale Water Campus

**Project Type:** Construction Related

**Description:** Improve the information management, control and acquisition systems to help ensure water quality compliance. The Laboratory Information Management System (LIMS), used to track all samples brought to the laboratory and the repository of all data generated in the laboratory, will be upgraded. The Regulatory Compliance Group currently manages the scheduling and sampling for compliance monitoring of wells, ground and surface water treatment plants and the water distribution system sampling stations manually. This process will be automated. Additionally, system optimization functionality will be incorporated via software upgrades to the Supervisory Control And Data Acquisition (SCADA) computerized system used to manage physical controls of the water distribution and wastewater collection systems.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	14.6	-	-	-	-	14.6
<b>Total:</b>	<b>14.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14.6</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Water Resources Impact Fees - (WC02)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 2.2      **Total Project Cost:** 20.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Water resources fee study and audit requirements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Resource Development Fees	17.8	-	-	-	-	17.8
<b>Total:</b>	<b>17.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17.8</b>

**Water System Security Enhancements - (YC26) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 413.2      **Total Project Cost:** 460.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provides for security enhancements at water and wastewater facilities identified in the Water Resources Vulnerability Assessment, including upgrade of existing prevention, detection and response systems as needed.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	46.8	-	-	-	-	46.8
<b>Total:</b>	<b>46.8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>46.8</b>

**Water System Security Enhancements - (YD26) ②**

**Est. Completion:** N/A      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 1,970.0  
**Location:** Citywide  
**Project Type:** Construction Related  
**Description:** Provides for security enhancements at water and wastewater facilities identified in the Water Resources Vulnerability Assessment, including upgrade of existing prevention, detection and response systems as needed.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	430.0	410.0	280.0	400.0	450.0	1,970.0
<b>Total:</b>	<b>430.0</b>	<b>410.0</b>	<b>280.0</b>	<b>400.0</b>	<b>450.0</b>	<b>1,970.0</b>

**Water Technology Master Plan - (WB72)**

**Est. Completion:** 06/19      **ITD Expenditures (Thru 03/16):** 243.1      **Total Project Cost:** 510.0  
**Location:** Citywide  
**Project Type:** Technology Related  
**Description:** Develop a ten year master plan to examine current capabilities and condition of our communications systems. The master plan will entail developing a roadmap to update, standardize and maintain integrated control systems including Supervisory Control and Data Acquisition/Telemetry infrastructure. The master plan effort will evaluate hardware/software, as well as study overall system resiliency.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	116.9	-	150.0	-	-	266.9
<b>Total:</b>	<b>116.9</b>	<b>-</b>	<b>150.0</b>	<b>-</b>	<b>-</b>	<b>266.9</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Water Treatment Facility Improvements - (WD04)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 0.0      **Total Project Cost:** 18,200.0

**Location:** Water Treatment Facilities - Central Arizona Project (CAP) Plant, Chaparral Water Plant, Arsenic Treatment Facility

**Project Type:** Construction Related

**Description:** Improve the water treatment facilities due to aging components. This project will include minor design, maintenance and construction modifications to various water treatment plant infrastructure, replacement of media, pump stations and storage tanks as driven by findings of the division's System Asset Management Program.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	6,350.0	3,375.0	3,100.0	2,950.0	2,425.0	18,200.0
<b>Total:</b>	<b>6,350.0</b>	<b>3,375.0</b>	<b>3,100.0</b>	<b>2,950.0</b>	<b>2,425.0</b>	<b>18,200.0</b>

**Water Treatment Plant Membranes - (WB71)**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 549.3      **Total Project Cost:** 5,637.5

**Location:** WasteWater Treatment Plant

**Project Type:** Construction Related

**Description:** Replace water treatment membranes at the Chaparral Water Treatment Plant, Central Arizona Project (CAP) Water Treatment Plant and Advanced Water Treatment Plant.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	2,074.2	1,127.5	1,127.5	379.5	379.5	5,088.2
<b>Total:</b>	<b>2,074.2</b>	<b>1,127.5</b>	<b>1,127.5</b>	<b>379.5</b>	<b>379.5</b>	<b>5,088.2</b>

**Well Sites - (WB75) ①**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 103.1      **Total Project Cost:** 1,115.4

**Location:** Multiple locations

**Project Type:** Construction Related

**Description:** Design and construct new wells and upgrade existing wells at locations determined consistent with the Master Plan for water system demand. The city will still need to replace existing wells once the well has reached its useful life.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	1,012.3	-	-	-	-	1,012.3
<b>Total:</b>	<b>1,012.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,012.3</b>

**Well Sites Rehabilitation - (WB51) ①**

**Est. Completion:** 06/21      **ITD Expenditures (Thru 03/16):** 2,024.7      **Total Project Cost:** 4,500.0

**Location:** Citywide

**Project Type:** Construction Related

**Description:** The wells in the city system are aging and need rehabilitation. The wells will be analyzed, chemically or mechanically cleaned and rehabilitated as necessary. The wells in the city are beneficial for future water needs of the City of Scottsdale and need to be working for peak water demands for summer use.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Rates	1,975.3	-	-	250.0	250.0	2,475.3
<b>Total:</b>	<b>1,975.3</b>	<b>-</b>	<b>-</b>	<b>250.0</b>	<b>250.0</b>	<b>2,475.3</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.

② Recurring Capital Maintenance Projects.

**WestWorld Improvements - (WB58)**

**Est. Completion:** 06/17      **ITD Expenditures (Thru 03/16):** 187.8      **Total Project Cost:** 1,650.0

**Location:** McDowell Mountain

**Project Type:** Construction Related

**Description:** Improve McDowell Mountain Golf Recharge Recovery pipeline, pump stations reservoirs, and recharge wells. This project is fully funded by the golf courses and city facilities receiving Central Arizona Project (CAP) water from the CAP Canal and delivered through the improvements.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
WestWorld Golf	712.2	-	-	-	750.0	1,462.2
<b>Total:</b>	<b>712.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>750.0</b>	<b>1,462.2</b>

**Zone 14/16 Water Improvements Phase 2 - (WB70)**

**Est. Completion:** 12/17      **ITD Expenditures (Thru 03/16):** 220.1      **Total Project Cost:** 14,471.3

**Location:** Carefree Highway and Bartlett Road

**Project Type:** Construction Related

**Description:** Design and construct a 2.5 million gallon reservoir, booster pump station and install approximately 10,000 linear feet of 16" water line in Carefree Highway to Bartlett Road to serve Wildcat Hills in the far reaches of the city limits.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
Water Development Fees	14,228.8	-	-	-	-	14,228.8
Water Rates	22.4	-	-	-	-	22.4
<b>Total:</b>	<b>14,251.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14,251.2</b>

**Zone 2 Water System Improvements - (WC05)**

**Est. Completion:** 06/18      **ITD Expenditures (Thru 03/16):** 38.3      **Total Project Cost:** 9,330.0

**Location:** East Shea Area

**Project Type:** Construction Related

**Description:** Retire Tank-36, Booster Pump Station 36 and Booster Pump Station 37. Replace pumps at Booster Pump Station 124 and add new pump(s) to directly supply surrounding pressure zones. New pipeline and Pressure Reducing Valve to supply Zone 3E and 5E. Install new pipeline along Frank Lloyd Wright Boulevard and replace Pressure Reducing Valve-145 with new upsized Flow Control Valve to increase capacity. Provides for replacement of assets at Booster Station 124 including electrical gear, generator, service entrance section, variable drives and appurtenances. Allows for modifications to the existing pump building and potential solar power to offset required grid electrical power.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	9,192.7	-	-	-	-	9,192.7
Water Rates	99.0	-	-	-	-	99.0
<b>Total:</b>	<b>9,291.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9,291.7</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.

**Zone 3W Water System Improvements - (WD03)**

**Est. Completion:** 06/19                      **ITD Expenditures (Thru 03/16):** 0.0                      **Total Project Cost:** 4,775.0

**Location:** Hayden and Frank Lloyd Wright

**Project Type:** Construction Related

**Description:** Design and construct improvements to the water system in the Airpark area due to growth driven capacity demands. The improvements include the installation of 12 inch, 20 inch and 30 inch transmission mains along Hayden and Frank Lloyd Wright.

Funding Sources (In thousands of dollars)	FY 2016/17 Budget	FY 2017/18 Forecast	FY 2018/19 Forecast	FY 2019/20 Forecast	FY 2020/21 Forecast	Total
MPC Bonds	325.0	4,250.0	-	-	-	4,575.0
Water Rates	100.0	100.0	-	-	-	200.0
<b>Total:</b>	<b>425.0</b>	<b>4,350.0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,775.0</b>

① Project was partially or wholly funded with reallocated bond proceeds from MPC Series 2013 per Resolution 10335 and MPC2016-01.  
 ② Recurring Capital Maintenance Projects.