



TEMPE az

CAPITAL IMPROVEMENTS
PROGRAM BUDGET

JULY 1, 2012 – JUNE 30, 2013

Tempe Mayor & City Council



Hugh Hallman
Mayor



Joel Navarro
Vice Mayor



Robin Arredondo-Savage
Council Member



Shana Ellis
Council Member



Mark Mitchell
Council Member



Onnie Shekerjian
Council Member



Corey Woods
Council Member



Capital Improvements Program Budget FY 2012-13



Charles W. Meyer
City Manager

Ken Jones
Finance and Technology Director

Cecilia Velasco-Robles
Budget Manager

Tom Mikesell
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Natalie Winger
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Anita Erspamer
Executive Assistant

About the Cover

Tempe Town Lake at dusk.
A top destination in Arizona, Tempe Town Lake is an engineering marvel
that protects the region from flooding, provides recreation, creates jobs
and stimulates investment in Tempe.



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RESOLUTION NO. 2012.68

A RESOLUTION DETERMINING AND ADOPTING FINAL ESTIMATES OF PROPOSED EXPENDITURES OF THE CITY COUNCIL OF THE CITY OF TEMPE, MARICOPA COUNTY, ARIZONA ADOPTING A FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM FOR THE PERIOD JULY 1, 2012 THROUGH JUNE 30, 2017

WHEREAS, Section 5.06 of the Tempe City Charter requires the Manager to prepare and submit to the City Council a five-year Capital Improvements Program, and

WHEREAS, the Manager has prepared and submitted said five-year Capital Improvements Program to the City Council for its consideration and adoption, and

WHEREAS, the Council has duly considered the contents of said Capital Improvements Program and finds it to be in the best interest of the City of Tempe;

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF TEMPE AS FOLLOWS:

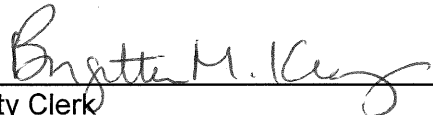
That the program summary entitled "Fiscal Years 2012-13 Through 2016-17 Capital Improvements Program Summary" on file in the office of the City Clerk (also attached hereto), is hereby approved and adopted as a planning guide to use in the scheduling and development of capital facilities for the ensuing five-year period.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA THIS 14th DAY OF JUNE, 2012.



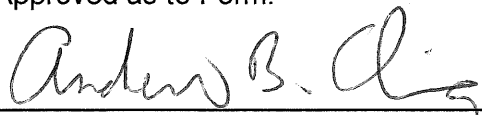
Mayor

Attest:



City Clerk

Approved as to Form:



City Attorney



Finance and Technology Director



2012-13 Capital Improvements Program Summary

Program	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
				2013-14	2014-15	2015-16	2016-17	
Enterprise Program								
Water	36,090,718	7,356,000	43,446,718	9,298,500	7,306,000	10,423,758	6,632,205	77,107,181
Wastewater	18,042,037	1,531,000	19,573,037	4,650,000	10,077,000	16,149,000	17,250,000	67,699,037
Total Enterprise	54,132,755	8,887,000	63,019,755	13,948,500	17,383,000	26,572,758	23,882,205	144,806,218
Special Purpose Program								
Transit	13,127,954	7,237,633	20,365,587	1,038,224	2,415,206	2,196,367	1,039,953	27,055,337
Total Special Purpose	13,127,954	7,237,633	20,365,587	1,038,224	2,415,206	2,196,367	1,039,953	27,055,337
General Purpose Program								
Police Protection	1,887,267	5,958,016	7,845,283	3,467,231	4,026,636	3,308,162	7,912,491	26,559,803
Fire Protection	970,305	717,216	1,687,521	1,332,600	600,000	582,800	550,000	4,752,921
Storm Drains	1,091,059	-	1,091,059	300,000	300,000	300,000	300,000	2,291,059
Park Improvements	7,094,925	2,911,236	10,006,161	4,018,169	33,780,300	2,137,500	2,107,500	52,049,630
General Governmental	6,678,999	4,965,295	11,644,294	2,439,465	2,161,279	2,236,429	2,230,749	20,712,216
Total General Purpose	17,722,556	14,551,763	32,274,319	11,557,465	40,868,215	8,564,891	13,100,740	106,365,629
Transportation								
Transportation and R.O.W.	4,125,365	3,307,975	7,433,340	5,057,361	3,771,527	3,771,527	3,771,527	23,805,282
Traffic Signals/Street Lighting	1,032,726	686,800	1,719,526	2,124,536	806,917	806,917	700,000	6,157,896
Total Transportation	5,158,091	3,994,775	9,152,866	7,181,897	4,578,444	4,578,444	4,471,527	29,963,178
TOTAL PROGRAM	90,141,355	34,671,171	124,812,526	33,726,086	65,244,865	41,912,460	42,494,425	308,190,362



2012-13 Capital Improvements Program Source of Funds Summary

Program	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
				2013-14	2014-15	2015-16	2016-17	
Enterprise Supported								
Water / Wastewater Bonds	53,728,459	8,487,000	62,215,459	13,548,500	16,983,000	26,172,758	23,482,205	142,401,922
Development Fees	-	400,000	400,000	400,000	400,000	400,000	400,000	2,000,000
Capital Projects Fund Balance	404,296	-	404,296	-	-	-	-	404,296
Total Enterprise Supported	54,132,755	8,887,000	63,019,755	13,948,500	17,383,000	26,572,758	23,882,205	144,806,218
Special Purpose								
Transit								
Federal Grants	10,547,653	6,278,267	16,825,920	-	1,381,000	1,200,000	-	19,406,920
Transit Tax	2,580,301	959,366	3,539,667	1,038,224	1,034,206	996,367	1,039,953	7,648,417
Total Transit	13,127,954	7,237,633	20,365,587	1,038,224	2,415,206	2,196,367	1,039,953	27,055,337
Total Special Purpose	13,127,954	7,237,633	20,365,587	1,038,224	2,415,206	2,196,367	1,039,953	27,055,337
General Purpose								
Capital Projects Fund Balance	14,486,686	-	14,486,686	1,011,977	-	-	-	15,498,663
Diablo Stadium Revenue	10,000	47,500	57,500	47,500	47,500	47,500	47,500	247,500
Federal Grants	465,889	101,616	567,505	-	-	-	-	567,505
General Obligation Bonds	2,454,462	9,187,056	11,641,518	6,817,460	33,841,613	3,761,255	850,000	56,911,846
G.O Bonds: Election Required	305,519	4,688,803	4,994,322	2,176,050	6,193,554	3,920,754	11,367,221	28,651,901
Performing Arts Fund	-	116,622	116,622	123,930	131,695	139,947	148,716	660,910
Solid Waste Fund	-	187,244	187,244	127,196	192,060	154,100	203,586	864,186
Water / Wastewater Fund	-	222,922	222,922	297,949	461,793	541,335	483,717	2,007,715
U.S. Army Corps of Engineers	-	-	-	955,403	-	-	-	955,403
Total General Purpose	17,722,556	14,551,763	32,274,319	11,557,465	40,868,215	8,564,891	13,100,740	106,365,629
Transportation								
Capital Projects Fund Balance	1,547,206	-	1,547,206	-	-	-	-	1,547,206
Federal Grants	572,810	293,690	866,500	2,521,453	106,917	106,917	-	3,601,787
General Obligation Bonds	3,038,075	3,701,085	6,739,160	4,660,444	4,471,527	4,471,527	4,471,527	24,814,185
Total Transportation	5,158,091	3,994,775	9,152,866	7,181,897	4,578,444	4,578,444	4,471,527	29,963,178
TOTAL PROGRAM	90,141,355	34,671,171	124,812,526	33,726,086	65,244,865	41,912,460	42,494,425	308,190,362

Capital Improvements Program Project Listings and Descriptions



Enterprise Program

WATER AND WASTEWATER PROJECTS
TOTAL \$63 MILLION IN FY 2012-13
AND ACCOUNT FOR 50% OF THE TOTAL
FY 2012-13 APPROPRIATED CIP BUDGET



The Enterprise component of the Capital Improvements Program consists of the Water and Wastewater programs. Combined, they constitute \$63 million of the \$124.8 million Capital Improvements Program for FY 2012-13. The City's Capital Budget for this area is driven by both planned infrastructure maintenance and replacement, and plant capacity expansions required to meet state and federal regulatory compliance requirements. The primary funding source for these projects in FY 2012-13 is water and wastewater revenue supported bonds. These bonds are repaid by user charges for service delivery in both programs.

Major Water Program projects in FY 2012-13 include final construction phases at the Johnny G. Martinez and South Tempe Water Treatment Plants, construction of a new Environmental Laboratory Facility, and numerous waterline improvements. Two projects, the Ken MacDonald Golf Course Recharge project and continued funding for expansion at the 91st Avenue Wastewater Treatment Plant, account for 78% of the FY 2012-13 Wastewater program. The program also includes funding for ongoing sewer line replacement and repair.

2012-13 CIP Projects - Water Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
ARC Flash Hazard Analysis: 3201202	Capital Projects Fund Balance	3,065	-	3,065	-	-	-	-	3,065
	Water / Wastewater Bonds	-	25,000	25,000	-	-	-	-	25,000
	Project Total	3,065	25,000	28,065	-	-	-	-	28,065
Carl Hayden Campus for Sustainability: 3203259	Capital Projects Fund Balance	102,174	-	102,174	-	-	-	-	102,174
Distribution System Fittings: 3299999	Water / Wastewater Bonds	30,000	230,000	260,000	230,000	230,000	230,000	230,000	1,180,000
Environmental Laboratory Facility: 3203499	Water / Wastewater Bonds	5,636,639	1,300,000	6,936,639	-	-	-	-	6,936,639
JGMWTP Security Improvements: 3203509	Water / Wastewater Bonds	1,600,000	-	1,600,000	400,000	-	-	-	2,000,000
JGMWTP Water Quality Upgrades: 3201099	Water / Wastewater Bonds	15,136,688	-	15,136,688	-	-	-	-	15,136,688
New Production Wells: 3200019	Water / Wastewater Bonds	2,531,127	-	2,531,127	1,500,000	1,500,000	1,500,000	-	7,031,127
Perimeter Metering of ASU Main Campus: 3203519	Water / Wastewater Bonds	1,942,219	-	1,942,219	-	-	-	-	1,942,219
SCADA Master Plan and Implementation: 3204409	Water / Wastewater Bonds	250,000	250,000	500,000	-	-	-	-	500,000
Small Meter Replacement Program - 2" and under: 3209319	Water / Wastewater Bonds	316,588	175,000	491,588	175,000	200,000	200,000	200,000	1,266,588
South Tempe Water Treatment Plant Improvements: 3203219	Water / Wastewater Bonds	2,521,594	-	2,521,594	-	-	-	-	2,521,594
Town Lake Bypass Pumps: 3204789	Capital Projects Fund Balance	299,057	-	299,057	-	-	-	-	299,057
Water Aqueduct Repair and Security at the JGMWTP: 3204959	Water / Wastewater Bonds	-	500,000	500,000	-	-	-	-	500,000
Water Metering Stations: 3201559	Water / Wastewater Bonds	779,000	-	779,000	-	-	-	-	779,000
Water Plant Repairs and Minor Upgrades: 3200079	Water / Wastewater Bonds	-	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
Waterline Repair & Replacement: 3299989	Water / Wastewater Bonds	1,809,945	-	1,809,945	800,000	800,000	800,000	800,000	5,009,945
	Development Fees	-	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
	Project Total	1,809,945	200,000	2,009,945	1,000,000	1,000,000	1,000,000	1,000,000	6,009,945
Waterline Replacements of High Frequency Break Areas: 3204969	Water / Wastewater Bonds	-	3,626,000	3,626,000	3,626,000	3,626,000	3,626,000	3,626,000	18,130,000
Waterline Upgrade/Replacement Rural (University - Apache): 3203539	Water / Wastewater Bonds	1,836,000	-	1,836,000	-	-	-	-	1,836,000
Well #10 Booster Pump Station: 3204979	Water / Wastewater Bonds	-	300,000	300,000	-	-	-	-	300,000
Well #9 Pump to Waste Line: 3204419	Water / Wastewater Bonds	561,000	-	561,000	-	-	-	-	561,000
Well Automation and Control: NA	Water / Wastewater Bonds	-	-	-	628,000	-	-	-	628,000

2012-13 CIP Projects - Water Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Well Rehabilitation: 3203549	Water / Wastewater Bonds	121,169	250,000	371,169	250,000	250,000	250,000	250,000	1,371,169
WMAT Quantification Settlement Agreement CAP Water Lease: NA	Water / Wastewater Bonds	-	-	-	-	-	3,117,758	826,205	3,943,963
WUD Security Improvements: 3201029	Water / Wastewater Bonds	600,000	-	600,000	989,500	-	-	-	1,589,500
WUD Security Improvements Well #7: 3201023	Water / Wastewater Bonds	14,453	-	14,453	-	-	-	-	14,453
Water Program Total		36,090,718	7,356,000	43,446,718	9,298,500	7,306,000	10,423,758	6,632,205	77,107,181

ARC Flash Hazard Analysis



Project Description

This project provides engineering services for OSHA required labeling on electrical equipment located at water facilities. These services provide calculations on potential energy discharges and approach boundaries for clear communication to our employees. The project will facilitate the safety of our employees while following OSHA safe work practices.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$28,065
Total	\$28,065

Project Number: 3201202
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance	\$3,065
Water / Wastewater Bonds	\$25,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$28,065	\$0	\$0	\$0	\$0	\$28,065

Carl Hayden Campus for Sustainability



Project Description

This project is tied to a Tempe City Council commitment to provide funding for park restoration, mitigation of areas disturbed by construction, environmental enhancements and improvements tied to the cost savings realized by routing the JGM WTP 60" water transmission main project through the Papago Park Green Line riparian area, adjacent portions of Papago Park and the Arizona Historical Society Museum property instead of a more costly and less favorable pipeline route.

Funds from this project have been used to do riparian and desert plant restoration work along the Green Line and other improvements to the Carl Hayden Campus for Sustainability, which includes the Green Line riparian habitat and Papago Park areas, the Tempe Xeriscape Demonstration Garden at Tempe Women's Club Park, the Eisendrath House, the Justice Sandra Day O'Connor House Center for Civic Discourse, the AHS Museum portion of the Green Line area, and Hallman Park.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$102,174
Total	\$102,174

Project Number: 3203259
Estimated Start Date: 07/01/09
Estimated Completion Date: 06/30/15

2012-13 Source of Funds

Capital Projects Fund Balance	\$102,174
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$102,174	\$0	\$0	\$0	\$0	\$102,174

Distribution System Fittings



Project Description

This project provides for the acquisition, assembly and installation of water works infrastructure including meters, valves, fire hydrants and water lines.

This project assures that all water distribution appurtenances are maintained and replaced in accordance with all State, Federal and Industry standards. This will make certain our citizens health and wellbeing is protected and that we are realizing all possible revenue from our meters. WUD operates and maintains approximately 43,500 meters, 24,200 valves, 9000 fire hydrants, and 840 miles of water line. While it's difficult to quantify the number of fittings or footage of pipe replaced annually, the life expectancy with routine maintenance could exceed 50 years. This project is typically used for fire hydrants, water vales, and ductile iron pipe which come with a 10 year warranty.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$1,180,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,180,000

Project Number: 3299999
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Water / Wastewater Bonds \$260,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$260,000	\$230,000	\$230,000	\$230,000	\$230,000	\$1,180,000

Environmental Laboratory Facility



Project Description

This project involves the design and construction of an environmental laboratory facility necessary to continue to analyze the quality of the City's drinking water and wastewater as required under federal and state environmental laws, and to ensure the safest possible water supply. Rapidly emerging regulations governing drinking water and wastewater have created a nearly 5-fold increase in the last decade in the number of analyses that Tempe must conduct to ensure compliance with Clean Water Act and Safe Drinking Water Act requirements. Technological changes necessary to detect pollutants at much lower concentrations have also increased our laboratory footprint. Additionally, the Water department has launched a process control analytical program that will allow us to use analytical data to better ensure that our processes for water and wastewater treatment are effective and sustainable.

Estimated Project Costs

Legal / Administration	\$50,000
Land Acquisition	\$0
Permit Fees	\$150,000
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$350,000
Furnishings / Equipment	\$300,000
Construction / Improvement	\$4,450,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$50,000
Other Project Costs	\$86,639
Total	\$6,936,639

Project Number: 3203499
Estimated Start Date: In progress
Estimated Completion Date: 05/31/12

2012-13 Source of Funds

Water / Wastewater Bonds \$6,936,639

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$6,936,639	\$0	\$0	\$0	\$0	\$6,936,639

JGMWTP Security Improvements



Project Description

This project would replace the existing chain link fence that secures our perimeter for both the JGM Water Plant site and the Papago Tank site and provide perimeter lighting for the fence line along the JGM Plant site. The current fence is over 20yrs old and in need of repair/replacement. The chain link fence would be replaced with a higher level security barrier fence consisting of solid metal vertical and horizontal materials matching the current fence / gates installed under our previous security project. The proposed lighting will consist of single fixture lights on poles along the fence line. The progress to date is the installation of the lower rolling gate adjacent to the recovery pond with access control features such as card access and camera surveillance at the point of entry. Expenditures planned in 13/14 are for the design and construction for the Papago Butte Backwash Tank Security Improvements, which is another phase of this project.

This project is a continuation of security improvements which were recommended / identified by threat vulnerability assessors as per the Department of Homeland Security requirements for critical infrastructures.

2012-13 Source of Funds

Water / Wastewater Bonds \$1,600,000

Estimated Project Costs

Legal / Administration	\$17,000
Land Acquisition	\$0
Permit Fees	\$56,000
Design and Engineering	\$38,000
Survey / Staking	\$3,000
Construction Management	\$122,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,747,000
Geotech / Material Testing	\$17,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,000,000

Project Number: 3203509

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/14

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,600,000	\$400,000	\$0	\$0	\$0	\$2,000,000

JGMWTP Water Quality Upgrades



Project Description

This project includes the planning, design, permitting and construction of facilities to upgrade existing infrastructure and to improve water quality. Project progress to date has included construction of a 12 million gallon reservoir, finished water pump station, electrical control building, standby power generator building, ultraviolet disinfection system, solids handling facilities, driveway and perimeter security improvements and booster pump station. Installation of enhanced coagulation treatment systems are currently underway. The final phase of the project will include upgrading the existing finished water reservoir, construction of an irrigation delivery pipeline for the Greenline, electrical and instrumentation systems upgrades and miscellaneous other plant improvements. This is the final phase of improvements required to meet the safe drinking water act regulations that go into effect in 2012.

2012-13 Source of Funds

Water / Wastewater Bonds \$15,136,688

Estimated Project Costs

Legal / Administration	\$200,000
Land Acquisition	\$0
Permit Fees	\$450,000
Design and Engineering	\$850,000
Survey / Staking	\$50,000
Construction Management	\$750,000
Furnishings / Equipment	\$200,000
Construction / Improvement	\$11,800,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$200,000
Other Project Costs	\$636,688

Total \$15,136,688

Project Number: 3201099

Estimated Start Date: In progress

Estimated Completion Date: 09/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$15,136,688	\$0	\$0	\$0	\$0	\$15,136,688

New Production Wells



Project Description

This project will connect three Salt River Project wells located along the Western Canal, and drill and outfit one new City of Tempe well. The SRP wells will be connected during FY 12-13. All work to be done on the SRP wells, including design and engineering, will be performed by SRP and billed to the City. This project will also include upgrades at Wells 7 and 14. New City wells will be permitted during FY 13-14 and constructed during FY 14-15 and 15-16.

These additional wells provide groundwater as a backup supply during drought or plant shut down and for blending to improve water quality. The Water Utilities Division of Public Works has a goal to obtain well capacity equal to one surface water treatment plant (50 MGD) for redundancy. The City currently operates and maintains 10 wells with an approximate capacity of 27 MGD.

Estimated Project Costs

Legal / Administration	\$56,000
Land Acquisition	\$0
Permit Fees	\$197,000
Design and Engineering	\$671,000
Survey / Staking	\$56,000
Construction Management	\$393,000
Furnishings / Equipment	\$0
Construction / Improvement	\$5,602,127
Geotech / Material Testing	\$56,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$7,031,127

Project Number: 3200019
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Water / Wastewater Bonds \$2,531,127

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$2,531,127	\$1,500,000	\$1,500,000	\$1,500,000	\$0	\$7,031,127

Perimeter Metering of ASU Main Campus



Project Description

This project will install perimeter metering for the ASU main campus bounded by University Dr., Rural Rd., Apache Blvd., and Mill Ave. The project will include meter vaults, meters and piping reconfiguration as required. The project is currently under design and construction and is anticipated to start in the summer of 2012.

The ASU main campus has numerous water mains throughout that are neither accessible nor maintainable due to lack of easements and placement (in ASU utility tunnels and other locations not reachable by equipment necessary for maintenance/repair). Perimeter metering will enable the metering of all water used on the main campus and reduce the risk of collateral damage.

Estimated Project Costs

Legal / Administration	\$15,000
Land Acquisition	\$0
Permit Fees	\$55,000
Design and Engineering	\$186,000
Survey / Staking	\$15,000
Construction Management	\$108,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,548,219
Geotech / Material Testing	\$15,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,942,219

Project Number: 3203519
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Water / Wastewater Bonds \$1,942,219

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,942,219	\$0	\$0	\$0	\$0	\$1,942,219

SCADA Master Plan and Implementation



Project Description

SCADA (Supervisory Control and Data Acquisition) systems allow remote monitoring and operation of critical equipment. This allows efficient operation of water and wastewater facilities. The use of SCADA helps alert staff to issues such as main breaks, pump breakdowns or other equipment failures, which can have adverse environmental impacts. Over the past 10 years, the current SCADA system has evolved, become increasingly complex and equipment has been added at each of the City of Tempe Water facilities. Data provided from the current system is used to forecast future design needs, as well as meet both regulatory and record retention requirements. The primary objectives of the Master Plan will be to review the current SCADA systems' functionality, life cycle costs, and technical needs for the next ten year period and establish a business-based vision of SCADA performance and support. The final product will identify gaps in the existing SCADA system, make recommendations for standardization of equipment and technology (both hardware and software) and provide an estimate of future SCADA related costs for budgeting purposes. Once the Master Plan has been developed, implementation will begin to standardize each of the Water and Wastewater facilities.

2012-13 Source of Funds

Water / Wastewater Bonds \$500,000

Estimated Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$14,000
Design and Engineering	\$52,000
Survey / Staking	\$0
Construction Management	\$430,000
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$500,000

Project Number: 3204409

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$500,000	\$0	\$0	\$0	\$0	\$500,000

Small Meter Replacement Program - 2 inches and Under



Project Description

This project provides for the replacement of revenue generating water meters that are 15 years or older. This will help increase water conservation through accurate metering.

2012-13 Source of Funds

Water / Wastewater Bonds \$491,588

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,266,588
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,266,588

Project Number: 3209319

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$491,588	\$175,000	\$200,000	\$200,000	\$200,000	\$1,266,588

South Tempe Water Treatment Plant Improvements



Project Description

This project includes the planning, design, permitting and construction of additional treatment facilities and the repair/replacement of aging equipment to meet current and future water quality regulations. Project progress to date includes the completion of a comprehensive study of treatment alternatives and development of detailed design plans and specifications for the major plant improvements. Installation of carbon dioxide system, sodium hydroxide systems, powdered activated carbon system, chlorine dosing systems, additional sludge drying facilities, well water discharge structures, reservoir drains and replacement of the finished water pump station is completed. Remaining components of the project include improvements to the administration and control building, instrumentation upgrades and replacement of miscellaneous existing equipment at the end of its usable lifespan.

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$35,000
Design and Engineering	\$230,000
Survey / Staking	\$0
Construction Management	\$100,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,900,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$15,000
Other Project Costs	\$231,594
Total	\$2,521,594

Project Number: 3203219
Estimated Start Date: In progress
Estimated Completion Date: 12/31/12

2012-13 Source of Funds

Water / Wastewater Bonds	\$2,521,594
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$2,521,594	\$0	\$0	\$0	\$0	\$2,521,594

Town Lake Bypass Pumps



Project Description

This project will be used for the rental of bypass pumps to ensure water quality at Town Lake until a permanent solution can be designed.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$299,057
Total	\$299,057

Project Number: 3204789
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance	\$299,057
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$299,057	\$0	\$0	\$0	\$0	\$299,057

Water Aqueduct Repair and Security at the JGMWTP



Project Description

This project will repair and secure the water aqueduct at the JGMWTP that supplies water from SRP's cross cut canal to the water plant for treatment.

The repairs to the aqueduct are required to stop the existing influent channels from leaking and to fix some structural defects found in recent years. The security component will be to enclose the channels with chain link fencing that will prevent objects from being thrown into the channels. The chain link fencing will be constructed to allow for operations to be able to walk the aqueduct on a regular basis and make it safer for periodic inspections along the length of the channels. The influent channels convey approximately 8 billion gallons of water to the JGMWTP each year.

Estimated Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$14,000
Design and Engineering	\$48,000
Survey / Staking	\$4,000
Construction Management	\$28,000
Furnishings / Equipment	\$0
Construction / Improvement	\$398,000
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$500,000

Project Number: 3204959
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/31/13

2012-13 Source of Funds

Water / Wastewater Bonds	\$500,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$500,000	\$0	\$0	\$0	\$0	\$500,000

Water Metering Stations



Project Description

This project includes the design and construction of nine flow and water quality monitoring stations dispersed throughout the water distribution system. The City currently has 5 metering stations under contract for construction and plans on completing the last 4 stations next year.

It is difficult to monitor water quality once water leaves the water treatment plants. The addition of these stations will provide continuous, real-time data that can be used in conjunction with existing computer models to more accurately measure the movement of water and monitor changes in water quality through the system.

Estimated Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$22,000
Design and Engineering	\$75,000
Survey / Staking	\$6,000
Construction Management	\$43,000
Furnishings / Equipment	\$0
Construction / Improvement	\$621,000
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$779,000

Project Number: 3201559
Estimated Start Date: Ongoing
Estimated Completion Date: 07/31/13

2012-13 Source of Funds

Water / Wastewater Bonds	\$779,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$779,000	\$0	\$0	\$0	\$0	\$779,000

Water Plant Repairs and Minor Upgrades



Project Description

This project will be used for unanticipated plant repairs and minor upgrades.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$2,500,000
Total	\$2,500,000

Project Number: 3200079
Estimated Start Date: 07/01/13
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Water / Wastewater Bonds \$500,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000

Waterline Repair and Replacement



Project Description

This Water Utilities Division Integrated Master Plan identifies most of the specific waterlines that require replacing to meet increasing demands.

This project provides a recurring funding source to replace waterlines that break during normal operation or have reached the end of their useful life. The City has approximately 840 miles of waterlines that are various ages and materials. Water main breaks occur in the older sections of the City, primarily north of the US-60, and are usually cast iron pipe (CIP) or asbestos cement pipe (ACP). There are approximately 225 miles of CIP and approximately 310 miles of ACP in our system that over time will need to be replaced. The average yearly expenditures are close to \$1 million per year, with additional funds necessary to accommodate unanticipated breaks.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$6,009,945
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,009,945

Project Number: 3299989
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Water / Wastewater Bonds \$1,809,945
 Development Fees \$200,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$2,009,945	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,009,945

Waterline Replacements of High Frequency Break Areas



Project Description

This project will be the beginning of a program to replace pipelines that are on the City's high frequency water break list. Based on historical waterline break history the following areas have been identified as areas that require replacement:

- Stadem Drive - Miller Rd. to Curry Rd. and Weber Dr. Scottsdale Rd. to Stadem Dr.
- Farmer Avenue - 1st Street to Broadway Road
- Neighborhood bordered by Southern Ave., US-60, Mill Ave. and McAllister Rd.
- 17th Street, 18th Street and 19th Street Hardy to Roosevelt
- Dorsey Drive - University to 8th Street
- Terrace Road - Broadway to Southern
- Margo Drive - University Drive to 12th Place
- Pebble Beach Drive and La Corta Drive from Laguna to McAllister
- Geneva Drive - Priest Drive to Albert Avenue
- Taylor/Papago/Van Ness west of Scottsdale Road
- Lemon Street, Una Ave from Dorsey to Orange Street and Hall St to Lemon St.

2012-13 Source of Funds

Water / Wastewater Bonds \$3,626,000

Estimated Project Costs

Legal / Administration	\$145,000
Land Acquisition	\$0
Permit Fees	\$510,000
Design and Engineering	\$1,735,000
Survey / Staking	\$145,000
Construction Management	\$1,010,000
Furnishings / Equipment	\$0
Construction / Improvement	\$14,440,000
Geotech / Material Testing	\$145,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$18,130,000

Project Number: 3204969
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$3,626,000	\$3,626,000	\$3,626,000	\$3,626,000	\$3,626,000	\$18,130,000

Waterline Upgrade / Replacement Rural (University - Apache)



Project Description

This water line will replace/upgrade the existing 14 inch cast iron pipe between University and Apache. Approximately 2600 feet of 16 inch ductile iron pipe will be tied to the 30 inch transmission main at University and Apache. New fire hydrants, gate valves, onsite fire suppression system connections, services/meters, and connections to the distribution system will be included.

The existing pipe was installed in 1964/68 and is nearing the end of its design life. In addition the non-standard diameter makes new connections and repairs more expensive and of longer duration. This also provides for increased service demands by ASU.

2012-13 Source of Funds

Water / Wastewater Bonds \$1,836,000

Estimated Project Costs

Legal / Administration	\$15,000
Land Acquisition	\$0
Permit Fees	\$52,000
Design and Engineering	\$175,000
Survey / Staking	\$15,000
Construction Management	\$102,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,462,000
Geotech / Material Testing	\$15,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,836,000

Project Number: 3203539
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,836,000	\$0	\$0	\$0	\$0	\$1,836,000

Well #10 Booster Pump Station



Project Description

This project will include modifications to Well #10 to allow for the installation of a booster pump station that will run when the well isn't running. Improvements will include the addition of booster pumps, piping, valves, electrical, instrumentation and controls to the well site. There will also be some piping and valve work in Southern Avenue..

This project will provide the infrastructure to facilitate moving water through the area east of the Price/101 freeway from the US-60 north to Broadway during times when Well #10 isn't running. This will improve the water quality and increase our ability to maintain a chlorine residual in the area.

2012-13 Source of Funds

Water / Wastewater Bonds \$300,000

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$29,000
Survey / Staking	\$2,000
Construction Management	\$17,000
Furnishings / Equipment	\$0
Construction / Improvement	\$240,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$300,000

Project Number: 3204979

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$300,000	\$0	\$0	\$0	\$0	\$300,000

Well #9 Pump to Waste Line



Project Description

This project will construct a pump to a waste line from the well to a Salt River Project irrigation box located in McClintock Drive. The installation of this line will eliminate the operational need to rely on the residents private irrigation system to pump to waste when Well #9 is needed for water production. Project progress to date includes preliminary design of the pipeline and discharge structure.

Well #9 is one of the City's most important ground water assets. When the STWTP is down for annual maintenance, this well provides water for the residents in South Tempe and maintains system pressure in the area. Before the well is placed into service for public consumption, the water is sent to waste until it meets drinking water standards. Currently the water is sent to a private irrigation system that is maintained by residents surrounding the well. During times of irrigation or other seasonal events, this creates a significant constraint on the ability to run the well as operationally necessary.

2012-13 Source of Funds

Water / Wastewater Bonds \$561,000

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$16,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$35,000
Furnishings / Equipment	\$0
Construction / Improvement	\$500,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$561,000

Project Number: 3204419

Estimated Start Date: In progress

Estimated Completion Date: 12/31/12

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$561,000	\$0	\$0	\$0	\$0	\$561,000

Well Automation and Control



Project Description

The City currently owns and operates 10 wells. Each well is connected to the SCADA Control System (Supervisory Control and Data Acquisition) which gives operational status only at each site. Currently a well is started and stopped by COT personnel at each location.

This project will include modifications to several City well sites that will automate the startup and stop of each well. This automation will add additional automated valves, electrical instrumentation, and controls to each well site. Automating the startup and stop process, will give added operational flexibility and control.

2012-13 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$18,000
Design and Engineering	\$60,000
Survey / Staking	\$5,000
Construction Management	\$35,000
Furnishings / Equipment	\$0
Construction / Improvement	\$500,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$628,000

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/14

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$628,000	\$0	\$0	\$0	\$628,000

Well Rehabilitation



Project Description

This project involves rehabilitation and major structural repair of City supply wells. One to two wells will be selected each year to be inspected by video camera, brushed and redeveloped, as necessary. This will be on-going, with the goal of rehabilitating each well once every four years.

The City operates and maintains 10 wells with an approximate capacity of 27 MGD. The City is reliant on these wells for back up and to manage system pressures and water quality during certain times of the year. This project helps to ensure that the wells are maintained and operational when they are needed.

2012-13 Source of Funds

Water / Wastewater Bonds \$371,169

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,351,169
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,371,169

Project Number: 3203549
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$371,169	\$250,000	\$250,000	\$250,000	\$250,000	\$1,371,169

WMAT Quantification Settlement Agreement CAP Water Lease



Project Description

The Tempe City Council approved the White Mountain Apache Tribe (WMAT) Quantification Settlement Agreement between the City of Tempe and the WMAT, the United States, the Salt River Valley Water Users Association (Salt River Project), the Central Arizona Water Conservation District (Central Arizona Project), other municipalities, and other State parties. The WMAT Quantification Settlement Agreement resolves water rights disputes among the parties and confirms the parties existing water rights. The Act provides a funding mechanism to construct a Rural Water System for the WMAT and awards a quantity of Central Arizona Project Colorado River water to the WMAT that was set aside for Indian water rights settlements by Congress in the Arizona Water Settlements Act of 2004.

The WMAT has determined that they wish to lease this water to Tempe and other valley cities that are parties to this settlement agreement under a long-term 100-year lease contract. Total lease cost is estimated at \$6,235,515. Initial payment of approximately \$3,117,758 is due on or about 7/01/15, with the second installment of approximately \$826,205 due on or about 7/01/16.

2012-13 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$3,943,963
Total	\$3,943,963

Project Number: NA
Estimated Start Date: 07/01/15
Estimated Completion Date: 07/01/20

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$0	\$0	\$3,117,758	\$826,205	\$3,943,963

WUD Security Improvements



Project Description

This project is a continuation of the Water Utilities Security Improvements for critical assets. During phase 1 and 2 of the security improvements project, a determination was made to focus on the division's critical treatment facilities, JGM Water Plant, South Water Plant, and Kyrene Wastewater Plant. Once these locations were complete, the plan was to expand to the other remote site critical assets; i.e. well sites, booster stations and above ground storage tanks. This project will specifically address the replacement of the current block and chain link fences and lighting concerns in place at these locations. Progress at this point has been an onsite preliminary design of well 1's security fencing.

2012-13 Source of Funds

Water / Wastewater Bonds \$600,000

Estimated Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$28,000
Design and Engineering	\$95,000
Survey / Staking	\$8,000
Construction Management	\$55,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,387,500
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,589,500

Project Number: 3201029
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/14

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$600,000	\$989,500	\$0	\$0	\$0	\$1,589,500

WUD Security Improvements Well #7



Project Description

Well #7 Security Improvements will include a 10-foot, 6-inch security block wall with steel pickets. In addition, the project includes a 20-foot wide steel picket rolling security gate at the entrance along Smith Road, and a 16-foot double wide steel picket swing security gate for access at the east entrance. New security lighting will also be included to provide illumination at the gates. The project is currently at 60% design. Well Site #7, located at 925 S. Smith Road, currently has a 6-foot block fence enclosure for the site.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$14,453
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$14,453

Project Number: 3201023
Estimated Start Date: In progress
Estimated Completion Date: Fall 2012

2012-13 Source of Funds

Water / Wastewater Bonds \$14,453

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$14,453	\$0	\$0	\$0	\$0	\$14,453



2012-13 CIP Projects - Wastewater Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Collection System and Pump Station Replacement and Repair: 3299969	Water / Wastewater Bonds	1,000,000	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Collection System Odor Control & Sewage Metering Station Improvements: 3206069	Water / Wastewater Bonds	784,261	-	784,261	-	-	-	-	784,261
Ken McDonald Golf Course Recharge Project: 3209309	Water / Wastewater Bonds	3,705,690	-	3,705,690	-	1,351,000	-	-	5,056,690
Sewer Metering Station Improvements: 3202559	Water / Wastewater Bonds	393,098	763,000	1,156,098	-	-	-	-	1,156,098
Sewer Replacement/Upsize (5th Street from Price Road to Smith Road): NA	Water / Wastewater Bonds	-	-	-	-	2,576,000	-	-	2,576,000
Sewer Replacement/Upsize Scottsdale Rd. Curry to Gilbert M.S.: 3209399	Water / Wastewater Bonds	858,988	318,000	1,176,988	-	-	-	-	1,176,988
Sewer Replacement / Upsize Smith Rd (Apache to University): NA	Water / Wastewater Bonds	-	-	-	-	-	2,599,000	-	2,599,000
SROG - 91st Avenue: 3200129	Water / Wastewater Bonds	11,300,000	-	11,300,000	3,200,000	4,700,000	12,100,000	15,800,000	47,100,000
	Development Fees	-	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
	Project Total	11,300,000	200,000	11,500,000	3,400,000	4,900,000	12,300,000	16,000,000	48,100,000
Wastewater Plant Repairs and Minor Upgrades: 3209409	Water / Wastewater Bonds	-	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Wastewater Program Total		18,042,037	1,531,000	19,573,037	4,650,000	10,077,000	16,149,000	17,250,000	67,699,037

Collection System and Pump Station Replacement and Repair



Project Description

The Water Utilities Division (WUD) Integrated Master Plan (IMP) identified most of the specific sewer lines that need to be replaced to meet increasing wastewater flows. This project will also be used to make improvements at our Knox, Alameda and Camelot lift stations. It is anticipated that expenditures up to \$1 million in 12/13 will be required at these stations to replace and repair equipment that has reached the end of its useful life.

This project provides a recurring funding source to replace sewer lines that break during normal operation. Also, this project will be used to construct or reconstruct wastewater infrastructure as needed at our pump stations, odor control facilities and metering stations. WUD operates and maintains 4 wastewater pump stations, 2 odor control biofilters, 4 wastewater metering stations and over 500 miles of sanitary sewers.

2012-13 Source of Funds

Water / Wastewater Bonds \$1,000,000

Estimated Project Costs

Legal / Administration	\$39,000
Land Acquisition	\$0
Permit Fees	\$137,000
Design and Engineering	\$468,000
Survey / Staking	\$39,000
Construction Management	\$273,000
Furnishings / Equipment	\$0
Construction / Improvement	\$4,005,000
Geotech / Material Testing	\$39,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$5,000,000

Project Number: 3299969
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000

Collection System Odor Control & Sewage Metering Station Improvements



Project Description

This project will include installing a new ventilation blower and exhaust louver system in the Gilbert Drive Metering Station, covering the flow measurement flume in order to both control the dissipation of sewer gasses into the working area and to prevent ventilation airflow from being forced into the sewer, constructing a new station entrance and stairway to improve access for maintenance and sample collection. Project progress to date includes development of engineering plans and specifications for the improvements.

This project will control sanitary sewer nuisance odors along Scottsdale Road north of Tempe Town Lake and will improve safety of the work environment within the Gilbert Drive Metering Station.

2012-13 Source of Funds

Water / Wastewater Bonds \$784,261

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$25,000
Design and Engineering	\$50,000
Survey / Staking	\$0
Construction Management	\$40,000
Furnishings / Equipment	\$25,000
Construction / Improvement	\$620,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$14,261
Total	\$784,261

Project Number: 3206069
Estimated Start Date: In progress
Estimated Completion Date: 12/31/12

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$784,261	\$0	\$0	\$0	\$0	\$784,261

Ken McDonald Golf Course Recharge Project



Project Description

This is a continuation of a project funded in fiscal 09/10. The project will provide the balance of funding to drill and outfit up to three aquifer storage and recovery wells at the Ken McDonald Golf Course.

The primary purpose of the Ken McDonald Golf Course (KMGC) Recharge Project is to fully utilize Tempe's renewable reclaimed water supplies and add to the City's Assured Water Supply Portfolio. The Project is permitted by the Arizona Department of Water Resources to store 3,400 acre-feet per year, and this volume of annual reclaimed water storage is included in Tempe's 100-year Assured Water Designation.

Estimated Project Costs

Legal / Administration	\$42,000
Land Acquisition	\$0
Permit Fees	\$142,000
Design and Engineering	\$354,000
Survey / Staking	\$30,000
Construction Management	\$291,000
Furnishings / Equipment	\$0
Construction / Improvement	\$4,155,690
Geotech / Material Testing	\$42,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$5,056,690

Project Number: 3209309
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/14

2012-13 Source of Funds

Water / Wastewater Bonds	\$3,705,690
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$3,705,690	\$0	\$1,351,000	\$0	\$0	\$5,056,690

Sewer Metering Station Improvements



Project Description

This project includes installation of a new ventilation blower and exhaust louver systems, and covering the flow measurement flumes in order to both control the dissipation of sewer gasses into the working area and to prevent ventilation airflow from being forced into the sewer at the four meter stations: TP-01 (Priest MS), TP-03 (SAI MS), TP-04 (48th St MS) and TP-05 (NW MS). Project progress to date includes development of conceptual design drawings for TP-03.

This project will control sanitary sewer nuisance odors in the vicinities of Priest Road and Rio Salado Parkway, 48th Street and Southern Avenue, 48th Street and Rio Salado Parkway and Priest Drive north of the Salt River related to existing flow metering stations in these locations. The project will also improve safety of the work environment within the metering stations. Constructing new station entrances and stairways will improve access for maintenance and sample collection providing safe entry for employees of SROG partner cities.

Estimated Project Costs

Legal / Administration	\$8,500
Land Acquisition	\$0
Permit Fees	\$32,500
Design and Engineering	\$122,000
Survey / Staking	\$6,000
Construction Management	\$69,500
Furnishings / Equipment	\$25,000
Construction / Improvement	\$860,000
Geotech / Material Testing	\$9,930
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$22,668
Total	\$1,156,098

Project Number: 3202559
Estimated Start Date: In progress
Estimated Completion Date: 12/31/13

2012-13 Source of Funds

Water / Wastewater Bonds	\$1,156,098
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,156,098	\$0	\$0	\$0	\$0	\$1,156,098

Sewer Replacement / Upsize (5th Street from Price Road to Smith Road)



Project Description

This project will replace / upsize the existing 15 inch sanitary sewer to increase capacity in preparation for future Apache Blvd. redevelopment. The new sewer will be 18 inch diameter. Estimated length is 2650 feet.

Estimated Project Costs

Legal / Administration	\$19,000
Land Acquisition	\$0
Permit Fees	\$68,000
Design and Engineering	\$231,000
Survey / Staking	\$19,000
Construction Management	\$135,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,925,000
Geotech / Material Testing	\$19,000
Utility Relocation Fees	\$160,000
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,576,000

Project Number: NA
Estimated Start Date: 07/01/14
Estimated Completion Date: 09/30/15

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$0	\$2,576,000	\$0	\$0	\$2,576,000

Sewer Replacement / Upsize Scottsdale Rd. Curry to Gilbert M.S.



Project Description

This project will replace 1,500 feet of existing 12 inch diameter sanitary sewer with new 15 and 18 inch diameter pipe. New sewer will facilitate additional discharges from Johnny G. Martinez Water Treatment Plant (JGMWTP) and new condominium development (Scottsdale/Weber/Curry). Project progress to date includes engineering design calculations, geotechnical investigations, evaluation of construction alternatives and completion of 60% design plans.

Estimated Project Costs

Legal / Administration	\$7,500
Land Acquisition	\$7,500
Permit Fees	\$7,500
Design and Engineering	\$58,988
Survey / Staking	\$7,500
Construction Management	\$63,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,000,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$25,000
Total	\$1,176,988

Project Number: 3209399
Estimated Start Date: In progress
Estimated Completion Date: 09/30/13

2012-13 Source of Funds

Water / Wastewater Bonds \$1,176,988

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,176,988	\$0	\$0	\$0	\$0	\$1,176,988

Sewer Replacement / Upsize Smith Rd (Apache to University)



Project Description

This project will replace the existing 12 and 15 inch diameter sanitary sewer to increase capacity in preparation for future Apache Blvd. redevelopment. The new sewer will be 18 inch diameter. Project length is approximately 2670 feet.

Estimated Project Costs

Legal / Administration	\$21,000
Land Acquisition	\$0
Permit Fees	\$73,000
Design and Engineering	\$248,000
Survey / Staking	\$21,000
Construction Management	\$145,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,070,000
Geotech / Material Testing	\$21,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,599,000

Project Number: NA
Estimated Start Date: 07/01/15
Estimated Completion Date: 09/30/16

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$0	\$0	\$2,599,000	\$0	\$2,599,000

SROG - 91st Avenue



Project Description

This project represents Tempe's share of all capital activities at the 91st Avenue Wastewater Treatment Plant including treatment capacity expansion projects, capital equipment replacement, modifications and additions to meet regulatory requirements, process enhancements, and capacity expansion of the jointly owned trunk sewer lines that convey wastewater flows to the plant. This plant is jointly owned by the Cities of Tempe, Phoenix, Mesa, Scottsdale and Glendale and is operated by the City of Phoenix.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$48,100,000
Total	\$48,100,000

Project Number: 3200129
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Water / Wastewater Bonds	\$11,300,000
Development Fees	\$200,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$11,500,000	\$3,400,000	\$4,900,000	\$12,300,000	\$16,000,000	\$48,100,000

Wastewater Plant Repairs and Minor Upgrades



Project Description

This project will be used for unanticipated plant repairs and minor upgrades. Even though the Kyrene plant will be shut down, it may require repairs and upgrades, as a contract will be issued for facility maintenance.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,250,000
Total	\$1,250,000

Project Number: 3209409
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Water / Wastewater Bonds \$250,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000



TRANSIT PROJECTS TOTAL \$20.4
MILLION IN FY 2012-13 AND ACCOUNT
FOR 16% OF THE TOTAL FY 2012-13
APPROPRIATED CIP BUDGET



The Special Purpose component of the Capital Improvements Program accounts for all projects included under a program area with a legally dedicated funding source. Currently, the Transit Program, which is funded by a dedicated one half cent City sales tax (the Transit Tax), is the City's only special revenue program area with capital projects in FY 2012-13.

While the Transit Tax provides \$3.5 million to fund transit capital projects in FY 2012-13; federal grants are the primary funding source, contributing \$16.8 million for the FY 2012-13 Transit Program.

Major projects in FY 2012-13 include completion of the East Valley Bus Operations and Maintenance Facility Expansion project, and the final stages of construction for the Broadway Road and Hardy Drive Streetscape Projects. The FY 2012-13 Transit Program also provides for several pedestrian pathway improvement projects, and projects that improve transit passenger facilities.

2012-13 CIP Projects - Transit Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Alameda Drive & I-10 Bicycle / Pedestrian Bridge: NA	Transit Tax	-	-	-	-	68,400	-	-	68,400
	Federal Grant - CMAQ	-	-	-	-	-	1,200,000	-	1,200,000
	Project Total	-	-	-	-	68,400	1,200,000	-	1,268,400
Broadway Road Streetscape Project: 6003059	Transit Tax	143,654	-	143,654	-	-	-	-	143,654
	Federal Grant - CMAQ	2,376,588	1,285,490	3,662,078	-	-	-	-	3,662,078
	Project Total	2,520,242	1,285,490	3,805,732	-	-	-	-	3,805,732
Bus Stop Capital Maintenance: 6005230	Transit Tax	-	589,366	589,366	602,724	620,806	638,867	657,453	3,109,216
CCTV Monitoring Stations - LRT Signal Intersections: 6004369	Federal Grant - CMAQ	425,099	-	425,099	-	-	-	-	425,099
City of Tempe Bus Pullout Project: 6006764	Transit Tax	622,867	-	622,867	-	-	-	-	622,867
City of Tempe Bus Purchases - Fleet: 6006752	Transit Tax	125,000	-	125,000	-	-	-	-	125,000
	Federal 5307 Grant	500,000	-	500,000	-	-	-	-	500,000
	Project Total	625,000	-	625,000	-	-	-	-	625,000
City of Tempe Transit Passenger Facilities Installation and Upgrade Project: 6003579	Transit Tax	250,000	-	250,000	175,000	187,500	200,000	225,000	1,037,500
City of Tempe Transit Passenger Information System Project: 6003049	Transit Tax	200,000	-	200,000	-	-	-	-	200,000
East Valley Bus Operations and Maintenance Facility Expansion: 6003589	Transit Tax	346,000	-	346,000	-	-	-	-	346,000
	Federal 5309 Grant	5,114,786	-	5,114,786	-	-	-	-	5,114,786
	Project Total	5,460,786	-	5,460,786	-	-	-	-	5,460,786
El Paso Natural Gasline Easement Multi-use Path Phase III: NA	Transit Tax	-	-	-	103,000	-	-	-	103,000
	Federal Grant - CMAQ	-	-	-	-	1,381,000	-	-	1,381,000
	Project Total	-	-	-	103,000	1,381,000	-	-	1,484,000
Hardy Drive Streetscape Project: 6004379	Transit Tax	71,820	-	71,820	-	-	-	-	71,820
	Federal Grant - CMAQ	1,188,180	-	1,188,180	-	-	-	-	1,188,180
	Project Total	1,260,000	-	1,260,000	-	-	-	-	1,260,000
Pathway Capital Maintenance: 6005240	Transit Tax	-	370,000	370,000	157,500	157,500	157,500	157,500	1,000,000
Rio Salado Southbank Path Tempe - Phoenix: 6004139	Federal Grant - CMAQ	-	692,777	692,777	-	-	-	-	692,777
Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange: 6004319	Transit Tax	65,172	-	65,172	-	-	-	-	65,172
	Federal Grant - CMAQ	943,000	-	943,000	-	-	-	-	943,000
	Project Total	1,008,172	-	1,008,172	-	-	-	-	1,008,172
Tempe Transit Center: 6006762	Transit Tax	755,788	-	755,788	-	-	-	-	755,788

2012-13 CIP Projects - Transit Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Unaccounted Federal Grants Contingency: 6005250	Federal Grants	-	3,200,000	3,200,000	-	-	-	-	3,200,000
University Drive Bike / Ped Improvements (Union Pacific Railroad to Priest): 6004509	Federal Grant - CMAQ	-	1,100,000	1,100,000	-	-	-	-	1,100,000
Transit Program Total		13,127,954	7,237,633	20,365,587	1,038,224	2,415,206	2,196,367	1,039,953	27,055,337

Alameda Drive & I-10 Bicycle / Pedestrian Bridge



Project Description

This project is a bicycle and pedestrian bridge along the Alameda Drive alignment at the I-10 freeway. The project includes lighting, safety features and public art. The project would be an elevated crossing of the I-10 connection to a Tempe's Fountainhead Business Park (east side) to Tempe Diablo Stadium (west side). The project would link several Tempe neighborhoods and bikeways, particularly the bike route along Alameda Drive to major employment centers, the stadium and a city of Phoenix bike route on Roeser Road. The project would be constructed with the ADOT, I-10 Improvements Project.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$68,400
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,200,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,268,400

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/15

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$0	\$68,400	\$1,200,000	\$0	\$1,268,400

Broadway Road Streetscape Project



Project Description

The Broadway Road Pedestrian and Bicycle Improvement Project is approximately 1 mile between Mill Ave and Rural Road. The project consists of pedestrian and bicycle facility improvements along an arterial street fronted by single family residential units. Work to be performed includes striping for bike lanes, the widening of sidewalks, construction of planted medians, protection from noise, pedestrian safety, reduction of speed limit, provisions for mid-block crossings and providing transit and pedestrian amenities.

Area residents are advocating to change the character of the street to reflect the residential uses on this stretch of Broadway Road, which differs significantly with the rest of corridor. The design of the Broadway Road project was a product of extensive community dialogues. The proposed project is identified in the Tempe Comprehensive Transportation Plan as one of the proposed corridors for improvement.

Estimated Project Costs

Legal / Administration	\$26,000
Land Acquisition	\$50,000
Permit Fees	\$49,000
Design and Engineering	\$259,252
Survey / Staking	\$76,000
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$3,228,480
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$117,000
Total	\$3,805,732

Project Number: 6003059
Estimated Start Date: 10/01/08
Estimated Completion Date: 12/01/12

2012-13 Source of Funds

Transit Tax	\$143,654
Federal Grant - CMAQ	\$3,662,078

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$3,805,732	\$0	\$0	\$0	\$0	\$3,805,732

Bus Stop Capital Maintenance



Project Description

This project will repair, rehabilitate and or replace bus stop infrastructure that has or will surpass its useful life during the project year or due to excessive or adverse environmental exposures (e.g., sun, irrigation, high use). City-wide bus stops number 814 with sizes and amenities varying widely based on transit system demand. The bus stop infrastructure consists of bus shelters (297), benches (775), bike racks (969), trash receptacles (775), lighting (173), concrete pads (tbd), schedule holders (1,100), and bus stop signs (789). In general, these assets were purchased and installed between 1994 and 2008.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$2,176,451
Construction / Improvement	\$932,765
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$3,109,216
Project Number:	6005230
Estimated Start Date:	07/01/12
Estimated Completion Date:	07/01/13

2012-13 Source of Funds

Transit Tax	\$589,366
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$589,366	\$602,724	\$620,806	\$638,867	\$657,453	\$3,109,216

CCTV Monitoring Stations - LRT Signal Intersections



Project Description

This project will purchase 23 CCTV cameras to install at Light Rail traffic signals. At the end of this project each of the light rail traffic signals (total 30) will be equipped with a CCTV camera.

The video monitoring stations will provide direct and immediate access to local traffic conditions. Accident and incident management will be enhanced by this additional monitoring capability while simultaneously allowing the transportation management staff the ability to monitor private and public transportation vehicles throughout the Tempe segment of this regionally significant transportation facility, maximizing multi-modal coordination and safety operations. Data gathered locally from this CCTV network can be shared between agencies and across jurisdictions including MAG, Valley Metro Rail as well as the cities of Phoenix and Mesa. This project promotes multi-jurisdictional congestion relief goals by providing a platform to better coordinate LRT traffic signals as well as to respond to accidents/incidents in a more cooperative and efficient process.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$425,099
Total	\$425,099
Project Number:	6004369
Estimated Start Date:	07/01/12
Estimated Completion Date:	07/01/13

2012-13 Source of Funds

Federal Grants - CMAQ	\$425,099
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$425,099	\$0	\$0	\$0	\$0	\$425,099

City of Tempe Bus Pullout Project



Project Description

The project will install new bus pullouts with passenger amenities at various bus stops in the city. The project will also refurbish deteriorating existing bus pullouts. The project will provide safe layover areas for the transit system, and improve traffic flow along major streets in the city by moving buses out of the general traffic lanes during busy times.

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$11,600
Design and Engineering	\$50,640
Survey / Staking	\$4,000
Construction Management	\$28,000
Furnishings / Equipment	\$0
Construction / Improvement	\$519,627
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$622,867

Project Number: 6006764
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Transit Tax \$622,867

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$622,867	\$0	\$0	\$0	\$0	\$622,867

City of Tempe Bus Purchases - Fleet



Project Description

This project provides funding for a prototype hybrid bus to determine specifications and feasibility to replace current Orbit fleet. The purpose is to provide a cost efficient and environmentally friendly passenger vehicle with an extended useful life for service in Tempe's current local circulator bus service.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$625,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$625,000

Project Number: 6006752
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Transit Tax \$125,000
 Federal 5307 Grant \$500,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$625,000	\$0	\$0	\$0	\$0	\$625,000

City of Tempe Transit Passenger Facilities Installation and Upgrade Project



Project Description

The project will install bus shelters and related passenger amenities (seating, bike racks, trash cans, transit schedule information) at 15 bus stops across the city in FY 2012-13 with 10 installations in each of the subsequent 4 fiscal years.

The bus stop represents the "lobby" to the transit system and must provide a safe, secure, and comfortable waiting area with adequate sun and weather protection for transit passengers. Adding additional bus shelters remains a top priority for Tempe and valley transit passengers. Locations will be determined by evaluating passenger demand at particular locations, number of direct and adjacent transit routes, existing environmental conditions (i.e., buildings, trees, commercial facilities) which may already provide some or all of the same amenities, and other factors.

Estimated Project Costs

Legal / Administration	\$8,300
Land Acquisition	\$0
Permit Fees	\$29,050
Design and Engineering	\$99,600
Survey / Staking	\$8,300
Construction Management	\$58,100
Furnishings / Equipment	\$0
Construction / Improvement	\$829,170
Geotech / Material Testing	\$830
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$4,150
Other Project Costs	\$0
Total	\$1,037,500

Project Number: 6003579
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Transit Tax	\$250,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$250,000	\$175,000	\$187,500	\$200,000	\$225,000	\$1,037,500

City of Tempe Transit Passenger Information System Project



Project Description

The project will install variable messaging signs at the Tempe Transportation Center and other major stops in the city displaying current information including arrival and departure times of buses to major bus stops in the city. The project will also include the purchase of interactive touch screens that will display current transit information and events for the transit passengers.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$5,000
Survey / Staking	\$0
Construction Management	\$12,000
Furnishings / Equipment	\$0
Construction / Improvement	\$172,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$1,000
Other Project Costs	\$5,000
Total	\$200,000

Project Number: 6003049
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Transit Tax	\$200,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$200,000	\$0	\$0	\$0	\$0	\$200,000

East Valley Bus Operations and Maintenance Facility Expansion



Project Description

The project is for the expansion of the East Valley Bus Operations and Maintenance Facility. The project will complete the expansion and needed improvements at the facility to support the different and new generation of buses being used in the region.

The project entails the construction of additional bus parking; bus shade structures; parking for paratransit fleet; installation of equipment upgrades; expansion of CNG fueling capacity; construction of a bio-diesel fueling station; installation of additional security cameras; additional improvements to meet employee needs; and construction of a shaded defueling facility.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$5,460,786
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$5,460,786

Project Number: 6003589
Estimated Start Date: 07/01/10
Estimated Completion Date: 10/30/12

2012-13 Source of Funds

Transit Tax	\$346,000
Federal 5309 Grant	\$5,114,786

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$5,460,786	\$0	\$0	\$0	\$0	\$5,460,786

El Paso Natural Gasline Easement Multi-use Path Phase III



Project Description

The project is a 1/2 mile path extension of the existing El Paso Gasline Path, extending from Price Road to McClintock Drive. This project will extend from Rural Road into Kiwanis Community Park. A bike lane along Southshore Drive, between McClintock and Rural, connects these two projects. The project will include a paved path, with lighting, landscaping, public art and other amenities. The project will meet all ADA requirements.

Estimated Project Costs

Legal / Administration	\$11,000
Land Acquisition	\$0
Permit Fees	\$42,000
Design and Engineering	\$232,000
Survey / Staking	\$11,000
Construction Management	\$77,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,100,000
Geotech / Material Testing	\$11,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,484,000

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/15

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$103,000	\$1,381,000	\$0	\$0	\$1,484,000

Hardy Drive Streetcape Project



Project Description

The Hardy Road Pedestrian and Bicycle Improvement Project is approximately 1 mile in length between Broadway Road and University Drive. The project consists of pedestrian and bicycle facility improvements along a collector street fronted primarily by single family residential units. Area residents are advocating retaining the neighborhood character of the street to reflect the residential uses on this stretch of which differs significantly south of the proposed project area. The project will consist of design and construction aimed at providing pedestrian, bicycle and transit improvements on Hardy Drive including: striping for bike lanes, widening of sidewalks and providing bulb-outs at critical intersections, reduction of existing travel lane widths, construction of planted medians, protection from intrusion of commercial truck traffic, improved pedestrian safety, reduction of speed limits, construction of mid-block crossings and providing transit, bicycle and pedestrian amenities.

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$18,000
Design and Engineering	\$0
Survey / Staking	\$58,000
Construction Management	\$57,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,027,000
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$70,000
Total	\$1,260,000
Project Number:	6004379
Estimated Start Date:	01/15/12
Estimated Completion Date:	12/15/13

2012-13 Source of Funds

Transit Tax	\$71,820
Federal Grant - CMAQ	\$1,188,180

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,260,000	\$0	\$0	\$0	\$0	\$1,260,000

Pathway Capital Maintenance



Project Description

This project will repair, rehabilitate and or replace multi-use pathway infrastructure that will surpass its useful life during the project year due to excessive or adverse environmental exposures (e.g., sun, irrigation, high use, theft). This project has three major elements:

- 1) Replace High Pressure Sodium (HPS) light bulbs with Light Emitting Diode (LED) bulbs to improve pathway lighting and safety/security, reduce energy use, and reduce operating and maintenance costs. Estimated cost is \$250,000.
- 2) Replace fence along Kyrene Pathway near Ken McDonald golf course that has been structurally damaged due to irrigation. Estimated cost is \$300,000.
- 3) Replace pathway light poles and associated infrastructure (wiring, bulbs, fixtures, concrete, shields) on segments where the assets have surpassed their useful life and/or are in poor to critical condition. Estimated cost is \$450,000.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$100,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$900,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,000,000
Project Number:	6005240
Estimated Start Date:	07/01/12
Estimated Completion Date:	07/01/13

2012-13 Source of Funds

Transit Tax	\$370,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$370,000	\$157,500	\$157,500	\$157,500	\$157,500	\$1,000,000

Rio Salado Southbank Path Tempe - Phoenix



Project Description

The Project provides funding for the design and construction of a continuation of the Tempe Rio Salado multi-use path system. This segment would extend from Priest Drive to State Road 143 on the western city limit of Tempe. The path would be on the south bank of the river channel. The project is part of a regional path network connecting specifically to Phoenix. This project is only for hardscape elements, including pathway, lighting, and railings. The project does not include landscaping or public art; both of which could be added later or in partnership with adjacent private development. The character of the project area is native desert. The project would require only lighting and pavement management operations costs.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$692,777
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$692,777

Project Number: 6004139
Estimated Start Date: 07/01/10
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Federal Grant - CMAQ \$692,777

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$692,777	\$0	\$0	\$0	\$0	\$692,777

Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange



Project Description

The project will construct approximately 1,200 feet of a shared use path underneath Loop 202 at the 202/101 Traffic Interchange connecting Tempe and Mesa along the south bank of the Salt River. The project involves a 12-foot wide concrete path with lighting and safety railings underneath the freeway and would link to existing and planned pathways in Tempe and Mesa.

The project provides a non-motorized link along a regionally significant riparian corridor between 2 major centers, Tempe Marketplace and Mesa Riverview. Additionally, the project will eliminate the main obstruction connecting Tempe to Mesa and will link to the Scottsdale Indian Bend Wash, Rio Salado, Downtown Tempe, Arizona State University, and Metro Light Rail. Finally the project is located in a Tempe Enterprise Zone which supports Tempe City Council's efforts to revitalize areas that serve low income neighborhoods.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,008,172
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,008,172

Project Number: 6004319
Estimated Start Date: 07/01/11
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Transit Tax \$65,172
 Federal Grant - CMAQ \$943,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,008,172	\$0	\$0	\$0	\$0	\$1,008,172

Tempe Transit Center



Project Description

The Tempe Transportation Center is a 40,000 square foot federally funded sustainable facility that is specifically designed to accommodate retail and office functions. Approximately 3,996 square feet of the ground floor is to be managed and leased as transit-oriented retail space.

Project funding provides for complete build-out and leasing of the ground floor retail space including:

- Essential Building Systems - \$549,512 for design and construction of gas lines, ventilation system, drainage system, grease interceptor, 10% contingency, and related city fees.
- Standard Tenant Improvements - \$165,000 for a tenant improvement allowance based on a market rate of \$40 per sq. ft.

2012-13 Source of Funds

Transit Tax \$755,788

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$755,788
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$755,788

Project Number: 6006762
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$755,788	\$0	\$0	\$0	\$0	\$755,788

Unaccounted Federal Grants Contingency



Project Description

The project will create additional spending authority for federal grants that may be available during FY 2012-13. The City must account for potential federal grants that could be secured and that need to be spent within 2012-2013. Potential grant funded projects include: a) South Tempe Transit Center; b) University Drive Bicycle and Pedestrian Improvements; c) EVBOM CNG Fuel Capacity Expansion; d) East Valley Solar Generation Capacity Improvements; e) Passenger Facility Rehabilitation; and f) Bus Stop Enhancements.

2012-13 Source of Funds

Federal Grants \$3,200,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$3,200,000
Total	\$3,200,000

Project Number: 6005250
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$3,200,000	\$0	\$0	\$0	\$0	\$3,200,000

University Drive Bike / Ped Improvements (Union Pacific Railroad to Priest)



Project Description

The University Drive improvement Project is approximately 1 mile between Mill Ave and the Union Pacific Railroad (west of Mill Avenue). The project consists of pedestrian and bicycle facility improvements along an arterial street. Work to be performed includes design and construction of a variety of streetscape elements which may include: ADA improvements, crosswalks, medians, transit shelters and amenities, landscaping, sidewalks, bike lanes, shade and street furniture. The project will support reduced automobile dependency and improved air quality.

The goal of the project is to enhance travel options for people of all ages and non-motorized users including: school children, seniors, professionals and college students accessing commercial centers, local parks, downtown Tempe, and ASU.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,100,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,100,000

Project Number: 6004509
Estimated Start Date: 10/01/11
Estimated Completion Date: 06/30/12

2012-13 Source of Funds

Federal Grant - CMAQ \$1,100,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,100,000	\$0	\$0	\$0	\$0	\$1,100,000

GENERAL PURPOSE
PROJECTS TOTAL \$32.3 MILLION IN
FY 2012-13 AND ACCOUNT FOR
26% OF THE FY 2012-13
APPROPRIATED CIP BUDGET



The General Purpose component of the Capital Improvements Program includes Police Protection, Fire Protection, Storm Drains, Park Improvements, and General Governmental programs. Combined, they constitute \$32.3 million of the \$124.8 million Capital Improvements Budget for FY 2012-13.

The five program areas above are almost entirely funded by \$14.5 million in existing project fund balances, and the planned issuance of \$16.6 million of general obligation bonds. The balance is funded from federal grants and other pay as you go contributions.

Major projects in FY 2012-13 include continued improvements to the City's regional radio system, the purchase of new laptop computers for police vehicles, continued design and engineering for the replacement of the Tempe Town Lake dam, continued energy efficient upgrades to City buildings, and numerous ongoing capital asset repair and replacement projects.



2012-13 CIP Projects - Police Protection Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
CAD / RMS / FRWS System: 5501999	Capital Projects Fund Balance	800,000	-	800,000	861,711	-	-	-	1,661,711
City Regional Radio System Maintenance and Replacement: 5501989	General Obligation Bonds	614,768	1,795,182	2,409,950	2,319,860	3,546,613	2,878,455	-	11,154,878
	G.O Bonds: Election Required	-	-	-	-	-	-	3,551,472	3,551,472
	Solid Waste Fund	-	112,244	112,244	127,196	192,060	154,100	203,586	789,186
	Water / Wastewater Fund	-	138,052	138,052	158,464	287,963	275,607	244,895	1,104,981
	Project Total	614,768	2,045,478	2,660,246	2,605,520	4,026,636	3,308,162	3,999,953	16,600,517
Law Enforcement Facilities and Regional Communication Project: 5504989	Dept. of Homeland Security Grant	365,000	-	365,000	-	-	-	-	365,000
Police Laptop Replacement: 5509189	General Obligation Bonds	-	3,912,538	3,912,538	-	-	-	-	3,912,538
	G.O Bonds: Election Required	-	-	-	-	-	-	3,912,538	3,912,538
	Project Total	-	3,912,538	3,912,538	-	-	-	3,912,538	7,825,076
Renovation of the 120 E. 5th Street Facility: 5503079	Capital Projects Fund Balance	65,400	-	65,400	-	-	-	-	65,400
Technology Integrated Police Systems (TIPS): 5506680	Capital Projects Fund Balance	42,099	-	42,099	-	-	-	-	42,099
Police Protection Program Total		1,887,267	5,958,016	7,845,283	3,467,231	4,026,636	3,308,162	7,912,491	26,559,803

CAD / RMS / FRWS System



Project Description

This project will replace the Police Department's existing Computer Aided Dispatch (CAD) System, Records Management System (RMS), and Field Report Writing System (FRWS). Combined, these three software components serve as the automated data collection, storage, and retrieval system for the Police Department. It is essential that these systems be replaced because the current CAD system runs on a mainframe computer that is no longer produced and, in Dec-2006, can no longer be maintained by an outside vendor.

Replacing this system will also provide considerable functionality that will allow the Police Department to more efficiently manage data, and will provide the foundation for future data sharing efforts with other jurisdictions.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$1,661,711
Other Project Costs	\$0
Total	\$1,661,711

Project Number: 5501999
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/14

2012-13 Source of Funds

Capital Projects Fund Balance \$800,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$800,000	\$861,711	\$0	\$0	\$0	\$1,661,711

City Regional Radio System Maintenance and Replacement



Project Description

The City of Tempe currently utilizes the Regional Wireless Cooperative (RWC), a regional interoperable radio system. The over-reaching goal of this project is for Tempe to continue as a functioning member of the RWC ASTRO P25 700/800 MHz digital trunking system. This project will continue to allow secure, day-to-day, real time communications between Tempe users as well as allowing interoperability between Tempe and the sixteen other member agencies and the numerous other partner agencies. The RWC allows for seamless interoperability among federal, state, transit, county and municipal users.

The RWC has communicated to its users, including Tempe that it plans to upgrade to Project 25 Phase 2 TDMA operations within the next six years in order to comply with the FCC's mandate. Tempe is responsible for upgrading and/or replacing "end user" equipment to accommodate this upgrade.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$16,600,517
Other Project Costs	\$0
Total	\$16,600,517

Project Number: 5501989
Estimated Start Date: 07/01/11
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$2,409,950
 Solid Waste Fund \$112,244
 Water / Wastewater Fund \$138,052

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$2,660,246	\$2,605,520	\$4,026,636	\$3,308,162	\$3,999,953	\$16,600,517

Law Enforcement Facilities and Regional Communication Project



Project Description

This project will increase the level of city facility protection by target hardening two key law enforcement facilities; Tempe Police Headquarters and the Hardy Police Substation. Both structures are critical Tempe governmental sites and are located near the urban core of the Central Region. Proposed target hardening measures support US Department of Homeland Security Strategies and the Arizona State Infrastructure Plan to address protective measures at soft targets. Target capabilities include critical infrastructure protection, planning, and risk management.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$321,720
Construction / Improvement	\$43,280
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$365,000

Project Number: 5504989

Estimated Start Date: 10/01/11

Estimated Completion Date: 09/30/12

2012-13 Source of Funds

Department of Homeland Security Grant	\$365,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$365,000	\$0	\$0	\$0	\$0	\$365,000

Police Laptop Replacement



Project Description

This project is intended to replace Police Department laptops and the onboard mobile gateway that no longer maintain necessary functionality. The Police Department is in the midst of upgrading its current software applications resulting in a fully integrated public safety system. This system must have reliable hardware to support and maintain its full functionality. As a result, ruggedized laptops, their supporting mounts and non-functioning mobile gateway devices need to be replaced at one time.

Police Department laptops need to be replaced every three to five years to ensure laptop functionality and limit failure in the field. Laptop failure increases departmental and City liability due to the officer reliance on laptops to communicate with dispatch, other officers and supervisors; write and submit their reports; and access necessary information sources to perform their daily job functions. Failure of laptops in the field could also result in delayed response to citizen calls for service and increase risks to officer safety.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$7,825,076
Other Project Costs	\$0

Total \$7,825,076

Project Number: 5509189

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds	\$3,912,538
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$3,912,538	\$0	\$0	\$0	\$3,912,538	\$7,825,076

Renovation of the 120 E. 5th Street Facility



Project Description

To date most of this renovation project has been completed. However, the remaining funds are needed to enhance security measures. Prior project progress renovated portions of the first and second floor of the facility located at 120 E. 5th Street, providing adequate work space for employees assigned to the Police Department and the Information Technology Department. The renovations redesigned inefficient workspace configurations, brought the facility into ADA compliance, addressed environmental and safety issues such as an antiquated Halon fire suppression system and upgraded the fire alarm system.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$65,400
Total	\$65,400

Project Number: 5503079
Estimated Start Date: 07/01/07
Estimated Completion Date: 12/31/12

2012-13 Source of Funds

Capital Projects Fund Balance \$65,400

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$65,400	\$0	\$0	\$0	\$0	\$65,400

Technology Integrated Police Systems (TIPS)



Project Description

The Technology Integrated Police Systems (TIPS) CIP project provides the necessary resources to incorporate new technology in the PD, as well as resources to upgrade and interface existing automated systems. Planned projects are based on the Department's Strategic Plan. Projects include two factor authentication for wireless devices to meet DPS-FBI security mandates, upgrades to the Automated Fingerprint Identification System (AFIS), a web-portal to receive citizen crime tips online and connecting neighborhoods through increased use of social media. Fiscal year 2012-13 projects include the Two Factor Authentication and AFIS upgrades.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$42,099
Other Project Costs	\$0
Total	\$42,099

Project Number: 5506680
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$42,099

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$42,099	\$0	\$0	\$0	\$0	\$42,099



2012-13 CIP Projects - Fire Protection Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Fire Apparatus Replacement: 5603619	Capital Projects Fund Balance	16,898	-	16,898	-	-	-	-	16,898
	General Obligation Bonds	590,000	550,000	1,140,000	550,000	550,000	550,000	550,000	3,340,000
	Project Total	606,898	550,000	1,156,898	550,000	550,000	550,000	550,000	3,356,898
Fire Laptop Replacement: 5603629	General Obligation Bonds	163,407	65,600	229,007	24,600	-	32,800	-	286,407
Radio Conversion: 5606947	Capital Projects Fund Balance	200,000	-	200,000	-	-	-	-	200,000
	Federal Grants	-	101,616	101,616	-	-	-	-	101,616
	Project Total	200,000	101,616	301,616	-	-	-	-	301,616
Replace Burn Room at Fire Training Center: NA	General Obligation Bonds	-	-	-	758,000	50,000	-	-	808,000
Fire Protection Program Total		970,305	717,216	1,687,521	1,332,600	600,000	582,800	550,000	4,752,921

Fire Apparatus Replacement



Project Description

This request is for funding to purchase 1500 G.P.M. pumper which has been identified for replacement. Replacement is predicated upon fire apparatus operational costs (repair, maintenance, mileage, engine hours, and fuel) with a tentative plan scheduled to replace either E271 or E274. Fire apparatus are evaluated for replacement after 10 years or when mileage exceeds 120,000.

Fire apparatus are vital to the protection of life and property. When an apparatus is placed out-of-service (for repairs and maintenance) the Department transitions personnel and equipment to a reserve vehicle (if one is available), which translates to less efficient service response. Fire apparatus are replaced to maintain a high level of reliability, decrease maintenance cost, decrease down time of front line apparatus, and to take advantage of advances in safety and service capabilities that are available in newer vehicles.

2012-13 Source of Funds

Capital Projects Fund Balance	\$16,898
General Obligation Bonds	\$1,140,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,156,898	\$550,000	\$550,000	\$550,000	\$550,000	\$3,356,898

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$3,356,898
Total	\$3,356,898

Project Number: 5603619
Estimated Start Date: 07/01/11
Estimated Completion Date: 12/30/17

Fire Laptop Replacement



Project Description

This project will provide for the replacement of ruggedized laptop computers used by Fire personnel in the field for electronic patient care report (ePCR) and development of a wireless fire apparatus infrastructure to accommodate small devices (cell phones), laptops and heart monitors.

The Fire Department is using 28 ruggedized laptops. These ruggedized laptops are used daily, which total over 16,000 annual EMS calls. Fire paramedics gather information while en-route to the hospital, which is transmitted to the treating facility prior to the patients' arrival, therefore enhancing patient care.

2012-13 Source of Funds

General Obligation Bonds	\$229,007
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$229,007	\$24,600	\$0	\$32,800	\$0	\$286,407

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$286,407
Other Project Costs	\$0
Total	\$286,407

Project Number: 5603629
Estimated Start Date: Continuing
Estimated Completion Date: 06/30/17

Radio Conversion



Project Description

This request is for the federally mandated public safety radio conversion to 800 Megahertz (MHz). It is the goal of the Fire Department and the Information Technology Division for the conversion to be completed by 6/30/12.

As a result of the FCC's realignment of all frequency spectrums, all public safety agencies must relinquish their VHF frequencies and convert to 800MHz. This mandated change will affect all the fire departments in the Phoenix metro area automatic aid consortium. This CIP will allow the Fire Department to continue with the federally mandated conversion and remain on track in our partnership with the other Valley Cities in the Automatic Aide System.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$301,616
Other Project Costs	\$0
Total	\$301,616
Project Number:	5606947
Estimated Start Date:	2000-01
Estimated Completion Date:	06/30/12

2012-13 Source of Funds

Capital Projects Fund Balance	\$200,000
Federal Grants	\$101,616

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$301,616	\$0	\$0	\$0	\$0	\$301,616

Replace Burn Room at Fire Training Center



Project Description

This project will renovate and modernize the existing fire training burn room and training tower at the Fire Training Center, which was built in 1993. The extensive use of this facility and the significant benefits derived from firefighters' training, which directly impacts the delivery of service to the community, have exceeded expectations.

Last year the burn room and skills tower were used 122 days for fire training and it was vital to firefighter preparedness and safety. Modern burn room facilities are conducive to firefighters learning by preparing them for real life situations they will encounter and is used an average of 24 days per year. Given the critical nature of this training for firefighter safety, it is essential that the burn room be kept in a functioning state.

Estimated Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$21,000
Design and Engineering	\$72,000
Survey / Staking	\$6,000
Construction Management	\$42,000
Furnishings / Equipment	\$0
Construction / Improvement	\$600,000
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$55,000
Total	\$808,000
Project Number:	NA
Estimated Start Date:	07/01/13
Estimated Completion Date:	06/30/15

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$758,000	\$50,000	\$0	\$0	\$808,000



2012-13 CIP Projects - Storm Drains Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
NPDES - EPA Program: 5806396	Capital Projects Fund Balance	173,789	-	173,789	-	-	-	-	173,789
Storm Drain Improvements: 5899971	Capital Projects Fund Balance	917,270	-	917,270	-	-	-	-	917,270
	General Obligation Bonds	-	-	-	300,000	300,000	300,000	300,000	1,200,000
	Project Total	917,270	-	917,270	300,000	300,000	300,000	300,000	2,117,270
Storm Drains Program Total		1,091,059	-	1,091,059	300,000	300,000	300,000	300,000	2,291,059

NPDES - EPA Program



Project Description

The City of Tempe is subject to a Phase I MS4 AZPDES Storm water permit that requires the routine inspection and maintenance of Tempe storm water infrastructure. This infrastructure includes but is not limited to catch basins, drywells, bubbler boxes, inlet structures, outfalls, streets, conveyance pipes, and retention basins. Progress on this program will be tracked annually as a component of permit reporting requirements.

The project helps to ensure storm water in infrastructure maintenance and repair needs are appropriately met in a timely manner. The project is needed to ensure environmental regulatory compliance with ADEQs AZPDES Storm water Permit.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$173,789
Total	\$173,789

Project Number: 5806396
Estimated Start Date: 1999
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$173,789

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$173,789	\$0	\$0	\$0	\$0	\$173,789

Storm Drain Improvements



Project Description

This project purpose and need is to relieve or eliminate localized flooding problems to residents/motorists/all users of Tempe streets and provides for the construction of storm drain extensions and improvements.

Tempe was recently informed that the Flood Control District of Maricopa County will be performing a comprehensive flooding and storm drain study that will identify areas of flooding and perform an existing system storm drain analysis. Overall Storm Drain Master Plan results will generate mitigation locations/alternatives to alleviate flooding throughout the City. The first phase of the study (Broadway and Rural Sub-basin) will include suggested construction alternatives during this year. The project design/construction effort will begin as soon as these results are known. Other storm drain improvements/preservation on existing infrastructure will also be made using this budget. Current and future project improvements will reduce or eliminate local neighborhood and street flooding in many areas of the City.

Estimated Project Costs

Legal / Administration	\$26,896
Land Acquisition	\$0
Permit Fees	\$10,084
Design and Engineering	\$67,236
Survey / Staking	\$56,028
Construction Management	\$0
Furnishings / Equipment	\$807,792
Construction / Improvement	\$997,954
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,117,270

Project Number: 5899971
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$917,270

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$917,270	\$300,000	\$300,000	\$300,000	\$300,000	\$2,117,270



2012-13 CIP Projects - Park Improvements / Recreation Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Aquatics (Swimming Pool) Infrastructure & Equipment Replacement: 6304999									
	General Obligation Bonds	-	115,000	115,000	155,000	135,000	-	-	405,000
	G.O Bonds Election Required	-	-	-	-	-	380,000	350,000	730,000
	Project Total	-	115,000	115,000	155,000	135,000	380,000	350,000	1,135,000
Athletic Field Lighting System Replacement: 6303089									
	General Obligation Bonds	765,922	690,000	1,455,922	515,000	515,000	-	-	2,485,922
	G.O Bonds Election Required	-	-	-	-	-	515,000	515,000	1,030,000
	Project Total	765,922	690,000	1,455,922	515,000	515,000	515,000	515,000	3,515,922
Diablo Stadium Capital Replacement & Reinvestment: 6303009									
	Diablo Stadium Revenue	10,000	47,500	57,500	47,500	47,500	47,500	47,500	247,500
	General Obligation Bonds	-	175,000	175,000	175,000	175,000	-	-	525,000
	G.O Bonds Election Required	-	-	-	-	-	175,000	175,000	350,000
	Project Total	10,000	222,500	232,500	222,500	222,500	222,500	222,500	1,122,500
Kiwanis Park Playground Replacement & Renovations: 6306808									
	Capital Projects Fund Balance	734,038	-	734,038	-	-	-	-	734,038
	General Obligation Bonds	-	-	-	400,000	-	-	-	400,000
	Project Total	734,038	-	734,038	400,000	-	-	-	1,134,038
Kiwanis Park Sprinkler Replacement: 6303099									
	Capital Projects Fund Balance	105,000	-	105,000	-	-	-	-	105,000
Mill Avenue Tree Replacement: 6305109									
	General Obligation Bonds	-	65,000	65,000	-	-	-	-	65,000
Park Concrete & Sports Court Replacement & Renovation: 6305119									
	General Obligation Bonds	-	100,000	100,000	100,000	100,000	-	-	300,000
	G.O Bonds Election Required	-	-	-	-	-	100,000	100,000	200,000
	Project Total	-	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Park Infrastructure / Equipment Replacement: 6399829									
	General Obligation Bonds	320,365	200,000	520,365	350,000	350,000	-	-	1,220,365
	G.O Bonds Election Required	-	-	-	-	-	300,000	300,000	600,000
	Project Total	320,365	200,000	520,365	350,000	350,000	300,000	300,000	1,820,365
Park Lighting System Replacement & Renovation: 6306846									
	General Obligation Bonds	-	200,000	200,000	200,000	200,000	-	-	600,000
	G.O Bonds Election Required	-	-	-	-	-	200,000	200,000	400,000
	Project Total	-	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
Park Playground Infrastructure & Equipment Replacement & Renovation: 6306725									
	General Obligation Bonds	-	225,000	225,000	225,000	225,000	-	-	675,000
	G.O Bonds Election Required	-	-	-	-	-	225,000	225,000	450,000
	Project Total	-	225,000	225,000	225,000	225,000	225,000	225,000	1,125,000
Park Renovation and Restoration: 6399729									
	Capital Projects Fund Balance	140,000	-	140,000	-	-	-	-	140,000

2012-13 CIP Projects - Park Improvements / Recreation Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Park Restrooms and Ramadas: 6305129	General Obligation Bonds	-	325,000	325,000	150,000	150,000	-	-	625,000
	G.O Bonds Election Required	-	-	-	-	-	150,000	150,000	300,000
	Project Total	-	325,000	325,000	150,000	150,000	150,000	150,000	925,000
Restroom Replacement & Renovations: 6301069	Capital Projects Fund Balance	137,764	-	137,764	-	-	-	-	137,764
Skate Park Structural Repairs: 6302629	Capital Project Fund Balance	15,000	-	15,000	-	-	-	-	15,000
	General Obligation Bonds	-	-	-	15,000	15,000	-	-	30,000
	G.O Bonds Election Required	-	-	-	-	-	15,000	15,000	30,000
	Project Total	15,000	-	15,000	15,000	15,000	15,000	15,000	75,000
Sports Facility Relamping: 6306938	Capital Projects Fund Balance	40,000	-	40,000	-	-	-	-	40,000
	General Obligation Bonds	-	-	-	30,000	30,000	-	-	60,000
	G.O Bonds Election Required	-	-	-	-	-	30,000	30,000	60,000
	Project Total	40,000	-	40,000	30,000	30,000	30,000	30,000	160,000
Tempe Beach Splash Playground Renovation: 6506931	Capital Project Fund Balance	30,834	-	30,834	-	-	-	-	30,834
Tempe Town Lake Pedestrian Bridge: 6501549	Capital Projects Fund Balance	428,765	-	428,765	-	-	-	-	428,765
Town Lake Dam Replacement: 6504229	Capital Projects Fund Balance	4,271,664	-	4,271,664	-	-	-	-	4,271,664
	General Obligation Bonds	-	768,736	768,736	550,000	27,500,000	-	-	28,818,736
	G.O Bonds Election Required	-	-	-	-	4,337,800	-	-	4,337,800
	Project Total	4,271,664	768,736	5,040,400	550,000	31,837,800	-	-	37,428,200
Town Lake Emergency Warning Modifications: 6503779	Capital Projects Fund Balance	44,073	-	44,073	-	-	-	-	44,073
U.S. Army Corps Match Money: 6506860	Capital Projects Fund Balance	51,500	-	51,500	150,266	-	-	-	201,766
	U.S. Army Corps of Engineers	-	-	-	955,403	-	-	-	955,403
	Project Total	51,500	-	51,500	1,105,669	-	-	-	1,157,169
Park Improvements / Recreation Program Total		7,094,925	2,911,236	10,006,161	4,018,169	33,780,300	2,137,500	2,107,500	52,049,630

Aquatics (Swimming Pool) Infrastructure & Equipment Replacement



Project Description

This is an ongoing project for the replacement of equipment and infrastructure needs at the City's pools and splash playgrounds. First year funding would address the interim use of the Clark Park pool site until the renovation of the pool can move forward. Second & third year funding would address the needs at the Kiwanis Recreation Center Pool, and the final two years would fund the needs at the McClintock Pool.

Estimated Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$50,000
Survey / Staking	\$0
Construction Management	\$34,000
Furnishings / Equipment	\$300,000
Construction / Improvement	\$600,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$135,000
Total	\$1,135,000

Project Number: 6304999
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$115,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$115,000	\$155,000	\$135,000	\$380,000	\$350,000	\$1,135,000

Athletic Field Lighting System Replacement



Project Description

This project addresses sports lighting pole safety issues, replacement of aging electrical service sections, and lighting deficiency. Immediate funding is being used for pole replacement and restoration throughout the City as recommended by testing reports, plus replacement of the athletic lighting systems at two of the four fields in Kiwanis Park. Funding for 2012-13 is to replace the lighting system at the remaining two Kiwanis Park ball fields, and start the design of the following year's replacement.

Future years will address replacing the removed lighting at the Kiwanis North Soccer Field with lighting in an alternate location. Replacement of the poor lighting at the five (5) Benedict Sports Complex fields is the next priority.

Estimated Project Costs

Legal / Administration	\$25,000
Land Acquisition	\$0
Permit Fees	\$75,000
Design and Engineering	\$300,000
Survey / Staking	\$25,000
Construction Management	\$175,000
Furnishings / Equipment	\$75,000
Construction / Improvement	\$2,565,922
Geotech / Material Testing	\$25,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$250,000
Total	\$3,515,922

Project Number: 6303089
Estimated Start Date: 07/01/08
Estimated Completion Date: 06/30/20

2012-13 Source of Funds

General Obligation Bonds \$1,455,922

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$1,455,922	\$515,000	\$515,000	\$515,000	\$515,000	\$3,515,922

Diablo Stadium Capital Replacement & Reinvestment



Project Description

This project provides for the ongoing contractual capital requirements and improvements at the Diablo Stadium Sports Complex. The City is contractually required to address Angel identified Stadium and Diablo Complex capital needs on an annual basis.

Funding will be used to: repair seating bowl surface; stadium infield and outfield turf replacement; stadium dugout; pigeon control; windscreens and outfield padding replacement; concourse resurfacing; stadium suite cabinet renovation; press box countertop renovation; press box and suites carpet replacement; stadium painting; and other maintenance & improvement needs. All are required to keep the Diablo Stadium Complex a high quality facility meeting MLB standards for the use of the Angels and other Complex user groups.

2012-13 Source of Funds

Diablo Stadium Revenue	\$57,500
General Obligation Bonds	\$175,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,122,500
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,122,500

Project Number: 6303009
Estimated Start Date: 01/01/08
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$232,500	\$222,500	\$222,500	\$222,500	\$222,500	\$1,122,500

Kiwanis Park Playground Replacement & Renovations



Project Description

This project was established to address the deteriorating condition of the Kiwanis Park Fiesta Playground. It provides for the complete replacement of all play equipment and a renovation of the playground bringing it into compliance with current ADA and safety requirements and guidelines. Immediate funding will be used to complete the design and construct an initial phase of the project by January 2013. Future funding will complete the renovation of the playground.

2012-13 Source of Funds

Capital Projects Fund Balance	\$734,038
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Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$25,000
Survey / Staking	\$2,000
Construction Management	\$16,000
Furnishings / Equipment	\$400,000
Construction / Improvement	\$609,038
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$22,000
Total	\$1,134,038

Project Number: 6306808
Estimated Start Date: 07/01/01
Estimated Completion Date: 11/01/12

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$734,038	\$400,000	\$0	\$0	\$0	\$1,134,038

Kiwanis Park Sprinkler Replacement



Project Description

This project was established to address the deteriorating condition of the Kiwanis Park irrigation system and needed landscaping improvements. The project included dedicated irrigation to park trees and drip irrigation to trees and shrubs, the addition of more trees & shrubs, and elimination of some turf areas and establishment of xeriscaping in those areas. While the project is basically complete, several issues related to the project still need to be completed:

- The majority of the older mature trees are declining/dying, and need to be replaced;
- Washouts/erosion is occurring in some of the new xeriscaped areas. A new geoweb system is being installed in one of the worst areas, and if successful will be used in these converted areas;
- A blockage/break in the drainage pipe in the Romero Group Picnic area needs to be addressed.

2012-13 Source of Funds

Capital Projects Fund Balance	\$105,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$105,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$105,000
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Project Number:	6303099
Estimated Start Date:	07/01/08
Estimated Completion Date:	04/01/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$105,000	\$0	\$0	\$0	\$0	\$105,000

Mill Avenue Tree Replacement



Project Description

The city planted 120 of Ficus Nitida trees on Mill Avenue in 1987. The trees created an iconic look on Mill Avenue and provide shade. The trees on Mill Avenue have remained healthy for almost 20 years. In 2010 a condition assessment of the trees indicated that 25 needed to be replaced within the next 5 years because they were dying or dead. Funding for this project will be used to remove the dead or dying Ficus Nitida trees and replace them with the same species; add amendments to the soil of existing and new trees as well as make modifications to the irrigation system so that the trees are watered up to the drip line (edge of the tree canopy).

A total of 43 trees will be replaced by the end of Fiscal 2012/13. An evaluation of the remaining trees will be conducted during 2012/13 to determine what replacements, if any, will be needed for the following fiscal year.

2012-13 Source of Funds

General Obligation Bonds	\$65,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$65,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$65,000
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Project Number:	6305109
Estimated Start Date:	07/01/12
Estimated Completion Date:	06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$65,000	\$0	\$0	\$0	\$0	\$65,000

Park Concrete & Sports Court Replacement & Renovation



Project Description

This is an ongoing project to provide ADA accessible walkways to playgrounds and other park and athletic amenities where they still don't exist in the majority of our parks and sports facilities. The project will also fund the regular replacement/construction of two park basketball courts per year. Finally, it provides for a five year resurfacing schedule of the Indian Bend & Harelson Park Tennis Courts; and the Mitchell, Creamery, Redden, and Waggoner Park basketball courts; plus the resurfacing of the asphalt walkways/plazas in Selleh, Meyer, Kiwanis Park ball fields and the Diablo Stadium Minor League Complex, and paving the maintenance yard at the Arredondo Sports Complex.

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$50,000
Survey / Staking	\$12,500
Construction Management	\$60,000
Furnishings / Equipment	\$0
Construction / Improvement	\$300,000
Geotech / Material Testing	\$12,500
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$50,000
Total	\$500,000

Project Number: 6305119
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$100,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Park Infrastructure / Equipment Replacement



Project Description

This ongoing project provides for the annual miscellaneous replacement of playground equipment, picnic equipment, fencing, signage, concrete, sand, rubber playground surfacing, electrical/lighting, etc. in all of the City's various parks, athletic facilities, aquatic facilities, Diablo Stadium, and other various Tempe parks and recreation facilities.

The primary project for 2012-13 will be the completion of phase II of the Kiwanis Park Fiesta Ramada project (approx. \$100,000). The next priority will be bringing the Jaycee, Escalante, Papago & Hanger Park playgrounds back into compliance with the new ADA law (est. \$75,000 - \$100,000). The remainder of future years' funding will be used to address the annual expenditures for the replacement of electrical service sections & security light poles/fixtures, picnic tables, benches, trash receptacles, drinking fountains, grills, fencing, concrete, sport court/field equipment, ramadas and much more.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$125,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,695,365
Total	\$1,820,365

Project Number: 6399829
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$520,365

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$520,365	\$350,000	\$350,000	\$300,000	\$300,000	\$1,820,365

Park Lighting System Replacement & Renovation



Project Description

This is an ongoing project to provide for the complete replacement of a park's lighting system. It provides for bringing the lighting in each park into compliance with current City and I.E.S. (Illuminating Engineering Society) guidelines and standards. It would include the replacement of the aged electrical service sections, conduit/wiring, poles and fixtures and other related equipment.

The priority is to address the lighting system needs at the following parks which have already had previous projects addressing related needs to this project: Escalante, Estrada, Harelson, Hollis, Joyce, Mitchell, Optimist, Palmer, Papago, Stroud and Svob. Starting with these parks would allow us to bring more than one park per year into compliance with current guidelines and standards.

2012-13 Source of Funds

General Obligation Bonds \$200,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000

Estimated Project Costs

Legal / Administration	\$15,000
Land Acquisition	\$0
Permit Fees	\$25,000
Design and Engineering	\$125,000
Survey / Staking	\$30,000
Construction Management	\$100,000
Furnishings / Equipment	\$0
Construction / Improvement	\$550,000
Geotech / Material Testing	\$30,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$125,000
Total	\$1,000,000

Project Number: 6306846

Estimated Start Date: 07/01/12

Estimated Completion Date: Ongoing

Park Playground Infrastructure & Equipment Replacement & Renovation



Project Description

This is an ongoing project to provide for the complete replacement of all equipment and safety surfacing in two park playgrounds per year. It provides for bringing each playground into compliance with current CPSC, ASTM and ADA guideline, standards and law.

The playgrounds in the majority of the City's 45+ park playgrounds have equipment ranging in age from a minimum of 15 - 30+ years, and were constructed prior to the current playground safety guidelines and the existence of an ADA law.

The priority is to bring our 5 playgrounds (Papago, Daley, Jaycee, Escalante, & Hanger) identified by the Mayors Committee as part of our ADA transition plan to be our fully accessible playgrounds (in addition to the Kiwanis north playground) into compliance with the changes made in the current ADA law. The next priority is to address those parks which have had some equipment replacement, and are in partial compliance with the new law and guidelines (Campbell, Clark, Harelson, Joyce, Optimist & Stroud).

2012-13 Source of Funds

General Obligation Bonds \$225,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$1,125,000

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$15,000
Design and Engineering	\$100,000
Survey / Staking	\$25,000
Construction Management	\$50,000
Furnishings / Equipment	\$0
Construction / Improvement	\$800,000
Geotech / Material Testing	\$25,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$100,000
Total	\$1,125,000

Project Number: 6306725

Estimated Start Date: 07/01/12

Estimated Completion Date: Ongoing

Park Renovation and Restoration



Project Description

This project funds the project management, design and planning associated with major park renovation projects under consideration for future years as funding capacity becomes available.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$140,000
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$140,000

Project Number: 6399729

Estimated Start Date: 07/01/07

Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Capital Projects Fund Balance \$140,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$140,000	\$0	\$0	\$0	\$0	\$140,000

Park Restrooms and Ramadas



Project Description

This project will renovate or replace restrooms and ramadas to ensure they are safe, accessible and in good working condition. City of Tempe maintains a park infrastructure system covering nearly 1900 acres in 48 parks. Within each park, Tempe maintains park structures including over 50 ramadas and approximately 20 restrooms. The following park structures have been identified for replacement in 2012-13: Ramadas at Papago South, fishing ramada at Kiwanis, and ramadas at Daley and Clark Parks.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$925,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$925,000

Project Number: 6305129

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

2012-13 Source of Funds

General Obligation Bonds \$325,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$325,000	\$150,000	\$150,000	\$150,000	\$150,000	\$925,000

Restroom Replacement & Renovations



Project Description

This project addresses the deteriorating condition of our existing park restrooms. It will provide for either a complete replacement of an existing park restroom and/or addressing the ADA, electrical/lighting and plumbing issues as funding permits. The intention is to begin renovation of the Hollis & Selleh restrooms during Spring, 2012. Remaining funds will then be used for design to address the needs at the Papago & Connolly Ballfields restrooms.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$27,764
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$110,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$137,764

Project Number: 6301069
Estimated Start Date: 07/01/07
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$137,764

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$137,764	\$0	\$0	\$0	\$0	\$137,764

Skate Park Structural Repairs



Project Description

This project provides for the ongoing annual specialized capital repairs to the City's three (3) skate parks. Repairs will include concrete, coping, grind edges, modular surface replacements, etc. In order to keep our skate parks in a safe condition for the users, damages need to be repaired on a timely basis.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$75,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$75,000

Project Number: 6302629
Estimated Start Date: 07/01/06
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$15,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000

Sports Facility Relamping



Project Description

This project establishes a plan for a regular cycle of relamping and cleaning of light fixtures at all softball/baseball fields, soccer fields, tennis/racquetball courts and park basketball/volleyball courts. Without this project the light levels at these sports facilities will decline, and expose the City to unnecessary risk.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$160,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$160,000

Project Number: 6306938

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$40,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$40,000	\$30,000	\$30,000	\$30,000	\$30,000	\$160,000

Tempe Beach Splash Playground Renovation



Project Description

This project provides funding for repair of the Valley's 1st splash playground, the Tempe Beach Splash Playground in Tempe Beach Park. Funding will replace worn features, pump room repair, curbing and flow issues, and update the existing deck following the August 2012 closing.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$30,834
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$30,834

Project Number: 6506931

Estimated Start Date: 08/15/12

Estimated Completion Date: 03/30/15

2012-13 Source of Funds

Capital Projects Fund Balance \$30,834

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$30,834	\$0	\$0	\$0	\$0	\$30,834

Tempe Town Lake Pedestrian Bridge



Project Description

The pedestrian bridge is located atop the Tempe Town Lake dam at the west end of Tempe Town Lake. This project was previously approved by Council, is underway, and is currently open to pedestrian traffic. Construction is completed on the bridge itself but not all obligations have not been met. There is still outstanding work required on some of the accessories to the bridge such as shade structures and other miscellaneous items.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$428,765
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$428,765

Project Number: 6501549
Estimated Start Date: 01/07/10
Estimated Completion Date: 08/01/12

2012-13 Source of Funds

Capital Projects Fund Balance \$428,765

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$428,765	\$0	\$0	\$0	\$0	\$428,765

Town Lake Dam Replacement



Project Description

Based on the contractual agreement between the City and Bridgestone, the temporary rubber bladders must be replaced by the City by the end of December, 2015. The City initiated a project to select, design and construct the "best - value" solution for replacement of the Tempe Town Lake downstream dam and that has been determined to be the steel hinged crest gate. Construction drawings will begin in 2012 to allow enough time for permit approvals for the new dam.

Estimated Project Costs

Legal / Administration	\$119,000
Land Acquisition	\$0
Permit Fees	\$1,018,736
Design and Engineering	\$2,234,664
Survey / Staking	\$318,000
Construction Management	\$1,582,000
Furnishings / Equipment	\$0
Construction / Improvement	\$31,837,800
Geotech / Material Testing	\$318,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$37,428,200

Project Number: 6504229
Estimated Start Date: 07/01/12
Estimated Completion Date: 12/31/15

2012-13 Source of Funds

Capital Projects Fund Balance \$4,271,664
 General Obligation Bonds \$768,736

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$5,040,400	\$550,000	\$31,837,800	\$0	\$0	\$37,428,200

Town Lake Emergency Warning Modifications



Project Description

This project involves the expansion of the warning capabilities (including lights, siren, and PA system) downstream of the west dam. The improvements include an automatic evacuation warning for the lake and real-time access to system notifications currently monitored by the Salt River Project. The design for this project is underway and nearing completion. Installation will follow. The purpose of this project is to advise recreational users of Tempe Town Lake of circumstances that could impact their safety.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$44,073
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$44,073

Project Number: 6503779
Estimated Start Date: 01/01/10
Estimated Completion Date: 08/01/12

2012-13 Source of Funds

Capital Projects Fund Balance \$44,073

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$44,073	\$0	\$0	\$0	\$0	\$44,073

U.S. Army Corps Match Money



Project Description

This project includes native plantings, irrigation, and a path to connect wildlife overlook stations and signage along the Salt River north bank from Indian Bend Wash to McClintock Drive. This environmental enhancement allows completion of the commitment the City made to jointly improve habitat within the Salt River and Indian Bend Wash, and complete the loop around Town Lake. It meets the City's environmental sustainability goals. Funding requirements include project design modification for construction, monitoring programs and maintenance.

Estimated Project Costs

Legal / Administration	\$11,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$51,500
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,084,669
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,157,169

Project Number: 6506860
Estimated Start Date: 11/01/12
Estimated Completion Date: 12/31/13

2012-13 Source of Funds

Capital Projects Fund Balance \$51,500

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$51,500	\$1,105,669	\$0	\$0	\$0	\$1,157,169



2012-13 CIP Projects - General Governmental Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
City Court									
Court Improvement Project: 6705139	G.O Bonds: Election Required	-	279,300	279,300	-	-	-	-	279,300
Community Development									
City Hall Parking Garage: 6702979	Capital Projects Fund Balance	552,972	-	552,972	-	-	-	-	552,972
Developable Property Management: 6709039	Capital Projects Fund Balance	237,040	-	237,040	-	-	-	-	237,040
Development Services Closeout Building Plan Archive: 6709229	Capital Projects Fund Balance	50,820	-	50,820	-	-	-	-	50,820
Development Services Technology Modernization: 6709219	Capital Projects Fund Balance	300,000	-	300,000	-	-	-	-	300,000
Eisendrath House: 6703479	Capital Projects Fund Balance	59,413	-	59,413	-	-	-	-	59,413
Solar Energy Project at Tempe Center for the Arts: 6705149	Performing Arts Fund	-	116,622	116,622	123,930	131,695	139,947	148,716	660,910
Community Development Total		1,200,245	116,622	1,316,867	123,930	131,695	139,947	148,716	1,861,155
Community Relations									
Call Center CRM System: 6704109	Capital Projects Fund Balance	128,420	-	128,420	-	-	-	-	128,420
E-Government Portal: 6700529	Capital Projects Fund Balance	63,100	-	63,100	-	-	-	-	63,100
Maryanne Corder Neighborhood Grant Program: 6706556	Capital Projects Fund Balance	183,734	-	183,734	-	-	-	-	183,734
Community Relations Total		375,254	-	375,254	-	-	-	-	375,254
Community Services									
Community Services ITD: 6702599	Capital Projects Fund Balance	51,936	-	51,936	-	-	-	-	51,936
Municipal Arts Program: 6699799	Capital Projects Fund Balance	800,000	-	800,000	-	-	-	-	800,000
	Water/ Wastewater Fund	-	84,870	84,870	139,485	173,830	265,728	238,822	902,735
Project Total		800,000	84,870	884,870	139,485	173,830	265,728	238,822	1,702,735
Tempe Public Library Renovation: 6702499	Capital Projects Fund Balance	56,799	-	56,799	-	-	-	-	56,799
Community Services Total		908,735	84,870	993,605	139,485	173,830	265,728	238,822	1,811,470
Finance and Technology									
Enterprise Network File Storage and Archival: 6709239	Capital Projects Fund Balance	1,837	-	1,837	-	-	-	-	1,837
	G.O Bonds: Election Required	-	377,703	377,703	381,050	133,754	133,754	191,211	1,217,472
	Project Total	1,837	377,703	379,540	381,050	133,754	133,754	191,211	1,219,309
Sales Tax System Replacement: 6706944	Capital Projects Fund Balance	45,600	-	45,600	-	-	-	-	45,600
Finance and Technology Total		47,437	377,703	425,140	381,050	133,754	133,754	191,211	1,264,909

2012-13 CIP Projects - General Governmental Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Public Works									
Century Link FTTN-FTTN-FAI: 6704591	Capital Projects Fund Balance	127,920	-	127,920	-	-	-	-	127,920
City Hall / Municipal Complex Rehabilitation: 6709249	Capital Projects Fund Balance	177,218	-	177,218	-	-	-	-	177,218
Data Center Backup Cooling: 6704289	Capital Projects Fund Balance	172,773	-	172,773	-	-	-	-	172,773
Downtown Infrastructure Improvements: 6704329	G.O Bonds: Election Required	25,000	76,000	101,000	102,000	102,000	102,000	102,000	509,000
EECBG Building Energy Retrofits: 6703821	Federal Grants - EECBG	100,889	-	100,889	-	-	-	-	100,889
Electrical Improvements: 6705159	G.O Bonds: Election Required	-	377,000	377,000	-	-	-	-	377,000
Elevator Replacement: 6705169	G.O Bonds: Election Required	-	179,000	179,000	-	-	-	-	179,000
Emergency Capital Repair: 6799779	G.O Bonds: Election Required	-	600,000	600,000	425,000	400,000	375,000	350,000	2,150,000
Energy Audit Phase 2: 6705179	G.O Bonds: Election Required	-	50,000	50,000	-	-	-	-	50,000
Fleet Maintenance Improvements: 6705189	Solid Waste Fund	-	75,000	75,000	-	-	-	-	75,000
Flood Irrigation Infrastructure Improvement Fund: 6704049	Capital Projects Fund Balance	47,000	-	47,000	-	-	-	-	47,000
Flooring Replacement Program: 6705199	G.O Bonds: Election Required	-	930,000	930,000	500,000	500,000	500,000	500,000	2,930,000
Fuel Metering Project: 6705209	G.O Bonds: Election Required	-	48,000	48,000	48,000	-	-	-	96,000
Historic Properties: 6706809	Capital Projects Fund Balance	60,448	-	60,448	-	-	-	-	60,448
	G.O Bonds: Election Required	-	-	-	50,000	50,000	50,000	50,000	200,000
	Project Total	60,448	-	60,448	50,000	50,000	50,000	50,000	260,448
HVAC Replacements: 6706873	G.O Bonds: Election Required	-	833,000	833,000	300,000	300,000	300,000	300,000	2,033,000
Improvement District Projects Expenses: 5106797	Capital Projects Fund Balance	50,000	-	50,000	-	-	-	-	50,000
QECB Energy Services Retrofit: 6703822	Capital Projects Fund Balance	3,105,561	-	3,105,561	-	-	-	-	3,105,561
Roof Replacement Program: 6702519	G.O Bonds: Election Required	280,519	411,800	692,319	320,000	320,000	320,000	300,000	1,952,319
Tempe Fire Training Facility: 6705219	G.O Bonds: Election Required	-	295,000	295,000	-	-	-	-	295,000
Water Heater Replacement Program: 6705229	G.O Bonds: Election Required	-	232,000	232,000	50,000	50,000	50,000	50,000	432,000
Public Works Total		4,147,328	4,106,800	8,254,128	1,795,000	1,722,000	1,697,000	1,652,000	15,120,128
General Governmental Program Total		6,678,999	4,965,295	11,644,294	2,439,465	2,161,279	2,236,429	2,230,749	20,712,216

Court Improvement Project



Project Description

This overall project encompasses several smaller projects that will benefit the public, City and Court. These smaller projects include: expanding the security station located in the PD/Court lobby; replacing the existing cloth-covered benches in the first and second floor lobbies with metal 'airport style' bench seating that will be easier to clean and maintain, thus lessening the potential for contagions; replacing the attorney/witness chairs in each of the five courtrooms, as well as the judge's chairs in two of the courtrooms; replacing the existing chairs in the second floor conference room; replacing the carpet in the staff areas on the first and second floors; replacing current staff chairs with ergonomic task chairs; constructing a door in the existing glass wall of the first floor break room that will connect with the outdoor patio area outside the PD/Court area.

In some instances, the condition of the facility negatively affects the health and welfare of the more than 700 people who visit the Court every day. Additionally, the poor condition of the Court facility can negatively impact the image of the City and the judicial system.

2012-13 Source of Funds

General Obligation Bonds \$279,300

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$1,500
Design and Engineering	\$1,500
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$171,000
Construction / Improvement	\$104,300
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$1,000
Other Project Costs	\$0

Total \$279,300

Project Number: 6705139

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$279,300	\$0	\$0	\$0	\$0	\$279,300

City Hall Parking Garage



Project Description

This project entails basic tenant improvements to the tenant space on the north side of City Hall Parking Garage. Tenant improvements will include such things as air conditioning, demising walls, restrooms, and fire protection sprinklers. The project should be completed in the 2012/13 fiscal year. The improvements are needed to lease the space.

2012-13 Source of Funds

Capital Projects Fund Balance \$552,972

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$50,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$502,972
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$552,972

Project Number: 6702979

Estimated Start Date: 07/05/12

Estimated Completion Date: 12/31/12

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$552,972	\$0	\$0	\$0	\$0	\$552,972

Developable Property Management



Project Description

This project was established to maintain, and in some instances, acquire property for redevelopment purposes. The project funds pay for required property association management fees, fencing (new and repairs), various signage (City property, no trespassing, no dumping), weed and trash removal, security lighting and improvements of City owned or controlled developable property. This project allows the City to maintain its developable properties in compliance with the Fire Codes, Neighborhood Enhancement Codes and the Maricopa County Environmental (dust control) codes. Progress to date includes no outstanding code violations, strategic acquisition and maintenance of several redevelopment properties.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$237,040
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$237,040

Project Number: 6709039
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$237,040

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$237,040	\$0	\$0	\$0	\$0	\$237,040

Development Services Closeout Building Plan Archive



Project Description

This project provides for the digitization of existing plans for projects that have been given final approval so that they may be stored in electronic format. This project will allow for completed plans to be stored in an electronic format which may be retrieved and viewed quickly via desk top computers as opposed to a microfiche station.

The following advantages are expected: reduced storage space, improved access to plans on existing buildings, capability of various city departments to access plans such as the Fire and Police Departments, provides long term storage capability in a media that does not degrade. This project also produces an environmental benefit by reducing physical storage space needed to store paper plan sets or micro film.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$50,820
Other Project Costs	\$0
Total	\$50,820

Project Number: 6709229
Estimated Start Date: 06/01/12
Estimated Completion Date: 01/01/13

2012-13 Source of Funds

Capital Projects Fund Balance \$50,820

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$50,820	\$0	\$0	\$0	\$0	\$50,820

Development Services Technology Moderization



Project Description

This project will procure, install, and utilize an electronic plan review software system for the Building Safety Division. The expected "go live" date is January 1, 2013.

This project will allow architects, engineers, and other applicants to submit electronic construction documents to the division for review and permitting. This system will ensure that the Community Development Department (CDD) can receive and plan review electronic documents and will allow for concurrent reviews to be performed by multiple plan reviewers and thus is expected to speed up the plan review process and reduce turnaround times. The following advantages are expected: Reduced printing costs, reduced storage space, eliminates the need to digitize physical paper plans, reduced physical trips to the CDD office, reduced staff time to log plans in and out, reduced plan review time, consistent plan review comments, improved processing and documentation of multiple plan sets (reviews per project), improved communications between applicant and city staff, consistent plan review processing.

2012-13 Source of Funds

Capital Projects Fund Balance \$300,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$300,000
Other Project Costs	\$0

Total \$300,000

Project Number: 6709219

Estimated Start Date: 06/01/12

Estimated Completion Date: 01/01/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$300,000	\$0	\$0	\$0	\$0	\$300,000

Eisendrath House



Project Description

This project includes multiple elements pertaining to the rehabilitation, design, construction and commissioning of the Historic Eisendrath House as part of the Carl Hayden Campus for Sustainability. The overall project is approximately 30% complete. The completed project will result in a rehabilitated historic structure housing office, museum, exhibit and special event spaces.

2012-13 Source of Funds

Capital Projects Fund Balance \$59,413

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$15,000
Construction / Improvement	\$15,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$29,413

Total \$59,413

Project Number: 6703479

Estimated Start Date: 07/01/08

Estimated Completion Date: 06/30/12

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$59,413	\$0	\$0	\$0	\$0	\$59,413

Solar Energy Project at Tempe Center for the Arts



Project Description

This project would install covered solar parking structures at the Tempe Center for the Arts (TCA) parking lot to reduce energy costs at the TCA through the generation of renewable solar energy.

This project would install solar covered parking over 310 spaces to generate renewable solar energy and reduce the utility cost at TCA. Several financing options would be considered including leasing, paying over time, and purchasing power at locked-in rates. This project would not be undertaken unless the financing and energy savings would result in no out-of-pocket costs for the city. A study would also be conducted to evaluate TCA against other City locations to determine the location that would generate the greatest savings. The final project cost is still be determined; however as stated above, the project would not be undertaken unless the analysis shows a positive financial impact for the City.

2012-13 Source of Funds

Performing Arts Fund \$116,622

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$660,910
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$660,910

Project Number: 6705149

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$116,622	\$123,930	\$131,695	\$139,947	\$148,716	\$660,910

Call Center CRM System



Project Description

Tempe began operations of a Citizen Request Management (CRM/311) system in November 2010 with a pilot which included the Public Works Department and the City's general operator phone lines. The next steps for implementing the CRM system are: 1) put into operation a web portal and smart phone services for residents by March 31, 2012; 2) deploy mobile technology for staff to receive and close requests in the field by June 30, 2012; 3) move from pilot phase to citywide service through 2012 and 4) implement a communication plan.

The web-based enterprise system is a technological tool that is used by the city's Customer Relations Center (CRC) to serve Tempe as a central connection for easily accessible information and government services. The CRM system enables CRC staff to provide consistent and accurate information or enter a service request into the system, where it will then be automatically routed to the proper location in the city. Finally, the CRM system allows the city to track and report on how services are being delivered to citizens.

2012-13 Source of Funds

Capital Projects Fund Balance \$128,420

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$128,420
Other Project Costs	\$0

Total \$128,420

Project Number: 6704109

Estimated Start Date: 08/01/10

Estimated Completion Date: Varies

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$128,420	\$0	\$0	\$0	\$0	\$128,420

E-Government Portal



Project Description

This project includes the purchase of software and or technical support to enhance community engagement through the web. It will allow for easier access to the public to comment on projects, policies and issues. The project will also improve customer interaction with the city through use of technology to report issues. The project is currently in the exploration/RFP stages.

Our current system and website do not allow for the community to engage with the city, provide input on issues or report a problem. Project funds will be utilized to enhance the new website to include these features.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$63,100
Other Project Costs	\$0
Total	\$63,100

Project Number: 6700529
Estimated Start Date: 07/30/12
Estimated Completion Date: 12/30/12

2012-13 Source of Funds

Capital Projects Fund Balance \$63,100

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$63,100	\$0	\$0	\$0	\$0	\$63,100

Maryanne Corder Neighborhood Grant Program



Project Description

The Neighborhood Grant Program provides funding for neighborhood initiated projects with a maximum cap of \$10,000 per project. The selection of recipients and the amounts awarded are determined by City Council based on recommendations from staff after a thorough review of requests by neighborhood and homeowners' associations for that grant cycle. Environmental benefits from projects include, but are not limited to: turf conversion, energy efficient lighting, drought tolerant planting and recyclable materials repurposed and used for art pieces.

The grant program is a direct investment in neighborhoods. Residents work together collaboratively to identify smaller projects that meet a community identified need or desire. The grants process requires extensive community involvement from the selection of and support for a project to the project application and through to the projects successful completion.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$183,734
Total	\$183,734

Project Number: 6706556
Estimated Start Date: Varies
Estimated Completion Date: Varies

2012-13 Source of Funds

Capital Projects Fund Balance \$183,734

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$183,734	\$0	\$0	\$0	\$0	\$183,734

Community Services ITD



Project Description

This project was established in 2006 to provide funding to develop a software solution for the Kid Zone Enrichment Program and Counseling & Diversion offices, and to assist in purchasing other technology and hardware requests for the divisions of Community Services. In Phase I of this project, an integrated registration application was completed. This application allows the Kid Zone site staff to use laptops to take site attendance and provides the central office staff with real-time staff to child ratio percentages. Additionally, a new solution was provided for Diversion to remove their reliance on the legacy Courts financial system. Phase 2 of this project includes Kid Zone online registration as well as online and recurring payments for all Social Services customers.

When Phase 2 of the Social Services software solution is implemented, online payments will expedite revenue collection and provide a convenient payment vehicle for the Kid Zone parents and for the Counseling and Diversion clients. This will allow Kid Zone to be competitive with other child care providers that are already accepting payments online.

2012-13 Source of Funds

Capital Projects Fund Balance	\$51,936
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Estimated Project Costs

Legal / Administration	
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$51,936
Other Project Costs	\$0
Total	\$51,936

Project Number: 6702599
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$51,936	\$0	\$0	\$0	\$0	\$51,936

Municipal Arts Program



Project Description

The purpose of this project is to advance art in all its forms for the benefit of the public, and to create an atmosphere in which the arts can flourish and to inspire Tempe citizens to recognize the arts as essential to the whole life of our community.

The project funds the City's cultural improvements including exhibitions, maintenance, support, grants for nonprofit, Tempe-based organizations; Young Artist's Studio/Young Artists Theatre, productions, and the Studio Artist Program with Tempe Elementary District #3.

2012-13 Source of Funds

Capital Projects Fund Balance	\$800,000
Water / Wastewater Fund	\$84,870

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,702,735
Total	\$1,702,735

Project Number: 6699799
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$884,870	\$139,485	\$173,830	\$265,728	\$238,822	\$1,702,735

Tempe Public Library Renovation



Project Description

The completion of the Library Renovation project includes the purchase of remaining technology components, the modification of new furnishings, and the addition of interior building signage. Remaining project components include:

1. Purchase of 21 public access computers. These computers will replace 21 computers which were granted to the Library by the Bill and Melinda Gates Foundation and which are now at end of their useful life.
2. Modifications to existing service desks. Improvements to new public service desks were intentionally postponed so that staff could determine needs based on actual usage experience.
3. Purchase of wireless communication devices which will enable staff to provide public services in the Library but away from fixed service points.

2012-13 Source of Funds

Capital Projects Fund Balance \$56,799

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$56,799
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$56,799

Project Number: 6702499
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$56,799	\$0	\$0	\$0	\$0	\$56,799

Enterprise Network File Storage and Archival



Project Description

The demand for information storage, archival, and records retention is continually increasing. New technology in "cloud computing" through virtualization has allowed Tempe to use Storage Area Networking (SAN) to share resources across multiple departments and applications. The City's existing SAN infrastructure is at its physical limitation for space. Recent technology developments in mid-tier storage for virtualization has provided a solution to extend the life of our existing infrastructure at a much reduced cost by offloading non-mission critical storage to a distributed SAN system that places storage near the users, providing fault tolerance to network interruptions and supports desktop virtualization. The existing highly available SAN will continue to support enterprise business functions such as financials, payroll, utility billing, and sales tax collection using the resources gained from the migration of non-mission critical storage to the lower cost mid-tier storage devices.

2012-13 Source of Funds

Capital Projects Fund Balance \$1,837
 General Obligation Bonds \$377,703

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$1,219,309
Other Project Costs	\$0

Total \$1,219,309

Project Number: 6709239
Estimated Start Date: 07/01/08
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$379,540	\$381,050	\$133,754	\$133,754	\$191,211	\$1,219,309

Sales Tax Replacement System



Project Description

This project upgrades the Tax & License Division's TaxMantra computer program. The upgrade is nearing completion. The balance of the project will fund the implementation of data imaging.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$45,600
Other Project Costs	\$0
Total	\$45,600

Project Number: 6706944
Estimated Start Date: 11/01/10
Estimated Completion Date: 06/30/12

2012-13 Source of Funds

Capital Projects Fund Balance \$45,600

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$45,600	\$0	\$0	\$0	\$0	\$45,600

Century Link FTTN-FTTN-FAI



Project Description

CenturyLink is currently upgrading their infrastructure to support voice, data and video services through the installation of fiber optic cable to increase their service capacity. Fiber to the Node, Fiber to the Cell, Fiber Access Initiative and PRISM are terms used by CenturyLink to describe the fiber optic cable routing for the improvements to their infrastructure and connectivity. The scope of work for this professional services contract includes expedited utility plan review, pre-construction site inspection, conducting pre-construction conference, coordination of construction activity and daily field inspection and reporting. Based on an agreement with CenturyLink, the full cost of this contract will be reimbursed to the City.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$127,920
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$127,920

Project Number: 6704591
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$127,920

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$127,920	\$0	\$0	\$0	\$0	\$127,920

City Hall / Municipal Complex Rehabilitation



Project Description

This project includes the installation of security improvement measures at the west garden level offices. An assessment of the condition of the Municipal Complex and immediate surroundings for refurbishing needs was conducted during the previous fiscal year. The study identified a security vulnerability relating to the Engineering/Public Works area as to free accessibility by anyone who walks into the office to both the office area and staff. This project will create a protective access control. Additional space is also needed for the heavily used Public Works conference room. This project will assist with the expansion of the room.

The following was included in the assessment of the condition of the Municipal Complex: lighting, signage, security, structural, mechanical, water penetration, deck surface and utilization, glazing and related mullions, panels, etc., landscaping, general aesthetics, and ADA and building code issues.

2012-13 Source of Funds

Capital Projects Fund Balance \$177,218

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$21,206
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$156,012
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$177,218

Project Number: 6709249

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$177,218	\$0	\$0	\$0	\$0	\$177,218

Data Center Backup Cooling



Project Description

The City of Tempe data center is located on the second floor of the Police headquarters/Courts building at 120 E. 5th Street. The equipment housed at the facility is heat generating and the temperature is currently managed by three interior, chilled water air handling systems. The existing emergency back-up cooling system consists of a single air cooled chiller and associated pump mounted on the roof top. It has reached the end of its useful life and is being replaced. The new back-up chiller will replace the existing roof mounted, air cooled chiller and chilled water pump with a new 40-ton air-cooled chiller and pump in the same location.

This facility houses the majority of the City application and network hardware, as well as police communications equipment, and is a critical part of the City's business continuity plan. The continuous operation of this facility throughout the year without disruption is critical to the daily operation of the City. The new back-up cooling system will provide total redundancy for the temperature control at data center facility allowing uninterrupted equipment operations.

2012-13 Source of Funds

Capital Projects Fund Balance \$172,773

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$172,773
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$172,773

Project Number: 6704289

Estimated Start Date: 07/01/12

Estimated Completion Date: 02/01/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$172,773	\$0	\$0	\$0	\$0	\$172,773

Downtown Infrastructure Improvements



Project Description

In the Mill Avenue district - bounded by University Drive, Ash Avenue, Rio Salado Parkway and College Avenue; Tempe maintains an inventory of decorative street furnishings which includes 65 trash cans, 52 ash trays, 31 street benches, and 8 recycling cans. In addition, the city is responsible for approximately 241,000 sq. feet of brick sidewalk, 200 tree grates, 100 tree rings, and an electrical system used to support special events and activities throughout the district, and particularly on Mill Avenue. This project is for the purpose of updating these furnishings and infrastructure and may include improvements and refurbishing of brick sidewalks, street furniture, and small enhancements identified in the Project for Public Spaces (PPS) analysis. Projects will be coordinated with input from the Downtown Tempe Community. Specific improvements in excess of \$50k would be presented to Mayor and Council for approval, prior to implementation.

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$14,000
Design and Engineering	\$47,000
Survey / Staking	\$5,000
Construction Management	\$28,000
Furnishings / Equipment	\$0
Construction / Improvement	\$405,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$509,000
Project Number:	6704329
Estimated Start Date:	07/01/12
Estimated Completion Date:	06/30/13

2012-13 Source of Funds

General Obligation Bonds	\$101,000
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$101,000	\$102,000	\$102,000	\$102,000	\$102,000	\$509,000

EECBG Building Energy Retrofits



Project Description

The energy efficiency project will upgrade 23 buildings in need of new mechanical equipment, including City Hall, 5 Fire Stations, 4 Community Centers, 2 Police Stations and Maintenance facilities. As part of the American Recovery and Reinvestment Act (ARRA), the City was awarded a \$930,000 Energy Efficiency and Conservation Block Grant (EECBG) in June 2009 for energy upgrades in 23 buildings and facilities. The City also received \$7.4 Million in Qualified Energy Conservation Bonds (QECBs), Federal ARRA pass-through low-interest bonds for energy projects. The total project cost is \$8.7 million for new HVAC, HVAC controls, lighting, and occupancy sensors in approximately 600,000 square feet of building area. The utility savings are anticipated to be \$550,000 annually and will help to pay the debt service for the bonds. The environmental benefit is the reduction of 9,360,896 pounds of CO2 emissions, the equivalent of removing 804 cars from the road each year. The project will reduce electricity costs, reduce energy use, and update aging mechanical equipment that is at the end of its useful life.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$100,889
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$100,889
Project Number:	6703821
Estimated Start Date:	05/01/11
Estimated Completion Date:	07/31/12

2012-13 Source of Funds

Federal Grants - EECBG	\$100,889
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$100,889	\$0	\$0	\$0	\$0	\$100,889

Electrical Improvements



Project Description

This funding provides for electrical system improvements throughout city facilities. During last fiscal year an engineering study was performed by engineers familiar with the power distribution and control equipment and performed an electrical analysis along with labeling electrical equipment components as defined in NFPA 70E-standard for electrical safety in the workplace. As a result of this project there were numerous items identified as needing repairs or replacements. Project funding will be used to rectify these deficiencies such as: replacement of damaged electrical panel, missing labels, further analysis to review over current protection, replacement of enclosure doors, and replace conductors that are not properly sized. This project will complete all the deficiencies as identified in the analysis of City Facilities.

Estimated Project Costs

Legal / Administration	\$3,000
Land Acquisition	\$0
Permit Fees	\$11,000
Design and Engineering	\$36,000
Survey / Staking	\$3,000
Construction Management	\$21,000
Furnishings / Equipment	\$0
Construction / Improvement	\$300,000
Geotech / Material Testing	\$3,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$377,000

Project Number: 6705159
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

General Obligation Bonds \$377,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$377,000	\$0	\$0	\$0	\$0	\$377,000

Elevator Replacement



Project Description

The City has 21 buildings with elevators valued at \$7.8 million. Regular maintenance and inspection of the elevators is completed under a contract with Arizona Elevator Company as part of the Facilities operating budget. Non-routine repair and replacement of City elevators are funded by this Project. In 2012-13, this project will replace the three elevators at the public Library. The elevators are approximately 22 years old and have been experiencing 3 to 4 calls per month for elevator repairs. These three elevators experience heavy public use. Failure to replace these elevators could result in costly repairs.

The scope for this project is to replace the following components of the three elevators: control system, solid state starter, pump unit, hoistway components, roller guides, hall/car equipment, door equipment, travel cable and hoistway wiring.

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$18,000
Survey / Staking	\$2,000
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$150,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$179,000

Project Number: 6705169
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

General Obligation Bonds \$179,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$179,000	\$0	\$0	\$0	\$0	\$179,000

Emergency Capital Repair



Project Description

Tempe maintains 96 buildings covering 1.6 million square feet. Each year the City experiences some unplanned and emergency repair needs. This project provides funding for these types of unplanned occurrences, including storm-related damage, sewer back-ups, fire damage, flooding and electrical emergencies. In addition, historically this project has funded fire alarm systems, building automation systems, plumbing needs elevator malfunctions and other general building repairs. Anticipated projects for 2012-13 include expansion joint repairs at City Hall, backup generator replacement at the main PD and paving improvements to the Library plaza entryway.

Continued funding for repair and replacement of faulty equipment and infrastructures allows for the city to have facilities that operate in a safe manner, efficient to operate and provides basic repairs that if not made could increase future costs of repairs. Planned maintenance extends the life of equipment and systems therefore reducing costly repairs and building closures.

2012-13 Source of Funds

General Obligation Bonds \$600,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$600,000	\$425,000	\$400,000	\$375,000	\$350,000	\$2,150,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$325,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,150,000

Project Number: 6799779
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

Energy Audit Phase 2



Project Description

Phase 1 of the City's energy performance contracting was started in July 2010 with an investment grade energy audit in which we identified over 20 buildings for review. The audit identified numerous pieces of equipment that were beyond their useful life and no longer efficient. Savings in utility costs from Phase I is projected to be in excess of \$500,000 per year. The environmental benefit from this project is 9,360,896 pounds of CO2 emissions will be eliminated, the equivalent of removing 804 cars from the road each year. This project provides funding for another investment grade energy audit to look at equipment in additional city facilities for further energy and efficiency improvements, with the goal of further energy savings. Staff identified the following buildings as having mechanical equipment that is beyond its useful life and require replacement: Kiwanis Recreation Center (54,000 s.f.) and the Tempe Public Library (116,000 s.f.). An estimated 15-18 additional buildings would be selected for audit based on the state of the equipment in the buildings and historical energy usage.

2012-13 Source of Funds

General Obligation Bonds \$50,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$50,000	\$0	\$0	\$0	\$0	\$50,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$50,000
Total	\$50,000

Project Number: 6705179
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

Fleet Maintenance Improvements



Project Description

This project will hire an engineering firm to design and review options to retro fit our Fleet Maintenance Operations facility into a facility where CNG equipment and trucks could be serviced. Currently this facility does not allow for servicing equipment that is CNG related. The evaluation and design analysis would look at improvements designed to minimize risk to personnel and facilities in the event of release of CNG from within the facility. Also, the following systems would be reviewed: Electrical, lighting, Heating, roof, and number of bay doors. The study will also evaluate other options available throughout the City including the East Valley Bus Operations & Maintenance facility. Currently, Solid Waste staff would like the ability to purchase CNG trucks, but with no place to service them it is not an option.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$75,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$75,000

Project Number: 6705189

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Solid Waste Fund \$75,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$75,000	\$0	\$0	\$0	\$0	\$75,000

Flood Irrigation Infrastructure Improvement Fund



Project Description

This project continues a program to replace old irrigation pipelines. This is an on-going project used to repair irrigation lines as funding becomes available. These pipelines are primarily located north of the US-60 in the older sections of the City and are non-reinforced concrete pipe. These pipelines frequently break and cause damage to private property, or are constricted due to root intrusion. Additionally, when these lines break, entire sections of customer properties are unable to receive irrigation until the lines are repaired.

Based on CCTV inspection previously performed, the following areas have been identified as high-priority areas that require replacement or relining: Ash Ave - 9th st to 13th st, 15th St - McAllister to Mill Ave, Wilson St. - University to 10 th st, and 4th St - McAllister to Mill Ave.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$1,000
Design and Engineering	\$5,000
Survey / Staking	\$0
Construction Management	\$3,000
Furnishings / Equipment	\$0
Construction / Improvement	\$38,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$47,000

Total \$47,000

Project Number: 6704049

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$47,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$47,000	\$0	\$0	\$0	\$0	\$47,000

Flooring Replacement Program



Project Description

The City maintains flooring ranging from tile to carpet to hardwood finishes with an estimated replacement value of \$15 million, of which currently 24% (or \$3.6 million) is currently beyond its expected useful life. Flooring has an expected useful life of 10 years. This project provides for the systematic replacement of worn flooring.

This project will replace flooring at the following buildings- Escalante (\$505,000), Fire Station #5 (\$45,000), Ken McDonald Golf Course -Pro Shop (\$20,000), Rolling Hills Golf Course (\$12,000) City hall Garden Level Office (\$176,000), Council Chambers (\$30,000), Courts (\$100,000), Priest Yard Building C (\$12,000), Hardy and Kiwanis Maintenance Yards (\$20,000), and Traffic Maintenance (\$10,000).

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,930,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,930,000

Project Number: 6705199
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

General Obligation Bonds \$930,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$930,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,930,000

Fuel Metering Project



Project Description

This project will install automated fuel management systems at 6 fueling sites and connect to the City's network for accurate fuel accountability. Currently, Fleet has installed automated fuel management systems at three fuel site locations linked to the Fleet Management software system and intends to meter a maximum of 6 more sites over the next 2 years. A strategic approach for this transition will be to add meters at Fire Station 1, 2 & 3 in FY 2012-13, and evaluate by FY 2013-14 the operational need for maintaining fuel tanks at the remaining three sites, (Ken McDonald, Rolling Hills and Diablo Stadium).

Fuel sites without fuel management systems have poor tracking of actual fuel consumption and the city has experienced an undetermined amount of fuel shrinkage. This has resulted in an inaccurate Operating and Maintenance (O&M) cost for vehicles in determining total cost of ownership during lifecycle, created difficulty in forecasting fuel consumption for subsequent budget years as well as doing fuel reconciliation on a quarterly basis.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$96,000
Total	\$96,000

Project Number: 6705209
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

General Obligation Bonds \$48,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$48,000	\$48,000	\$0	\$0	\$0	\$96,000

Historic Properties



Project Description

This project Funds the rehabilitation and repair of aging historic facilities, infrastructure and systems. The scope of the rehabilitation includes infrastructure systems, roofing repairs/replacements, floor covering, painting, security lighting, repairs/upgrades of building automation systems, fire alarms and damaged equipment. Future plans include painting at Peterson House, Hackett House and Elias Rodriguez.

The City has 6 buildings designated as historic properties and these buildings have an average age of 100 years. The preservation of City owned historic properties is essential to prolong the sustainability of historic public properties. Taking a proactive approach to repairs will often reduce future expenditure costs. Funding of repairs/replacement of faulty equipment and infrastructure failures in public facilities allows staff to take corrective action to minimize the potential of health and safety liabilities.

2012-13 Source of Funds

Capital Projects Fund Balance \$60,448

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$260,448
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$260,448

Project Number: 6706809
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$60,448	\$50,000	\$50,000	\$50,000	\$50,000	\$260,448

HVAC Replacements



Project Description

Tempe maintains nearly 400 air conditioning, heat pump and split system units with an expected useful life of 12 years. This project is intended to annually replace 8% of the units, or approximately 30-33 units per year. HVAC systems account for approximately 30% of the electrical bill. By replacing older and inefficient units with more efficient units, the City saves in electricity expenditures, reduces time and labor in repair needs, and reduces our carbon footprint.

In 2012-13, the following locations have a total of 30 units that need to be replaced: Ken McDonald Maintenance Facility (\$83,000); Kiwanis Recreation Center (\$200,000), Library Chiller (\$400,000) and a total of \$150,000 for the following locations: Diablo, North Water Treatment, Fire Stations 2 & 5, South PD, Adult Day Care, Hatton Hall, Escalante, Hardy Warner Maintenance Facility.

2012-13 Source of Funds

General Obligation Bonds \$833,000

Estimated Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$14,000
Design and Engineering	\$48,000
Survey / Staking	\$4,000
Construction Management	\$28,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,935,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,033,000

Project Number: 6706873
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$833,000	\$300,000	\$300,000	\$300,000	\$300,000	\$2,033,000

Improvement District Projects Expenses



Project Description

This is an ongoing project fund that supports the initiation of any new improvement districts within the City of Tempe as well as any additional expenses incurred once the ID has been formed. Project funds help with the startup costs needed for administrative and legal costs associated with the formation of an improvement district. There are a potential of two future ID projects - 181 (east of Tempe Marketplace) and 182 (east of the stables on the north side of Town Lake). The monies would be used for start-up costs prior to bonding of the ID's.

Estimated Project Costs

Legal / Administration	\$50,000
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$50,000

Project Number: 5106797
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$50,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$50,000	\$0	\$0	\$0	\$0	\$50,000

QECB Energy Services Retrofit



Project Description

As part of the American Recovery and Reinvestment Act (ARRA), the City was awarded a \$930,000 Energy Efficiency and Conservation Block Grant (EECBG) in June 2009 for energy upgrades in 23 buildings and facilities including City Hall, 5 Fire Stations, 4 Community Centers, 2 Police Stations and Maintenance facilities. In March 2011, the City applied for and received \$5.45 million in Qualified Energy Conservation Bonds (QECBs) in addition to \$1.85 million previously allocated by the Arizona Commerce Authority. These are pass-through Federal ARRA low-interest bonds for energy projects. The total project cost is \$8.7 million for new HVAC, HVAC controls, lighting, and occupancy sensors in approximately 600,000 s.f. of building area. The utility savings are anticipated to be \$550,000 annually and will help to pay the debt service for the bonds. The environmental benefit is the reduction of 9,360,896 pounds of CO2 emissions, the equivalent of removing 804 cars from the road each year. The project will reduce electricity costs, reduce energy use, and update aging mechanical equipment that is at the end of its useful life.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$3,105,561
Total	\$3,105,561

Project Number: 6703822
Estimated Start Date: 05/01/11
Estimated Completion Date: 07/31/12

2012-13 Source of Funds

Capital Projects Fund Balance \$3,105,561

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$3,105,561	\$0	\$0	\$0	\$0	\$3,105,561

Roof Replacement Program



Project Description

This project will replace roofs at the following buildings: Priest Yard buildings B, C, D, and G (\$311,000); Traffic Maintenance Yard (\$81,000); Kiwanis Recreation Center (\$120,000); Diablo Main Stadium (\$150,000), Rolling Hills Maintenance (\$15,000), Ken McDonald (\$30,000), and Clark Park (\$20,000).

Cost/Benefit: Roofs for our City facilities are a very important assets to maintaining facilities. By not replacing these roofs that are beyond their useful life, we could have damage from water getting into to our facilities therefore costing us much more over time and creating health and safety issues. The expected life of a roof is 15-20 years. The City will be working towards completing a condition rating program of all roofs to provide for a more specific prioritization of future roofing projects.

2012-13 Source of Funds

General Obligation Bonds \$692,319

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$20,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,932,319
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,952,319

Project Number: 6702519
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$692,319	\$320,000	\$320,000	\$320,000	\$300,000	\$1,952,319

Tempe Fire Training Facility



Project Description

The campus of the Tempe Fire Training Center at 1342 E University Ave houses a 150' antenna tower necessary for police and fire communications. During some of the heavier rain storms, the retained storm water in the adjacent basin has come very close to flooding the generator, and electronic equipment building at the base of the tower.

The purpose of the project is to mitigate the flooding at the training facility by enlarging and improving the existing retention basin and blocking offsite runoff from the adjacent APS site. The equipment on the tower, in the adjacent equipment shelter and the generator are necessary for continued fire and police communication and protection.

2012-13 Source of Funds

General Obligation Bonds \$295,000

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$28,000
Survey / Staking	\$2,000
Construction Management	\$17,000
Furnishings / Equipment	\$0
Construction / Improvement	\$236,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$295,000

Project Number: 6705219
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/01/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$295,000	\$0	\$0	\$0	\$0	\$295,000

Water Heater Replacement Program



Project Description

The City maintains 166 water heaters with an expected useful life of seven years. This project will replace water heaters at the following buildings: Escalante (\$7000.), Fire Stations 1 & 2 (\$17,000), Priest Yard (\$10,000) Maintenance PD (\$20,000) and Diablo Stadium (\$180,000).

Faulty and inefficient water heaters are costly to maintain and also have a negative impact to the users of these facilities. By being proactive we are further reducing water damage to facilities, emergency repairs and making our facilities more comfortable for our users and visitors. Delayed replacement will cost the city more over time than replacing units when they are beyond their useful life cycle.

2012-13 Source of Funds

General Obligation Bonds \$232,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$427,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$432,000

Project Number: 6705229

Estimated Start Date: 07/01/12

Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$232,000	\$50,000	\$50,000	\$50,000	\$50,000	\$432,000

TRANSPORTATION PROJECTS TOTAL
\$9.2 MILLION IN FY 2012-13 AND
ACCOUNT FOR 7% OF THE 2012-13
APPROPRIATED CIP BUDGET



The Transportation element of the Capital Improvements Program includes all new and ongoing improvements put into service under the City's Transportation and Right-of-Way, and Traffic Signal and Street Lighting programs. Combined the two programs represent \$9.2 million of the \$124.8 million Capital Improvements Budget for FY 2012-13.

The primary funding source for the two programs in FY 2012-13 will be \$6.7 million in general obligation bonds. The Transportation and Right-of-Way program will utilize the bulk of those bonds with \$5.9 million planned to be sold for the program. Together, the programs are scheduled to receive nearly \$900,000 in funding from federal grants, and will utilize \$1.5 million to fund projects from existing capital projects fund balances.

In FY 2012-13 the Transportation and Right-of-Way program is scheduled to complete a variety of arterial and residential street maintenance, resurfacing, and reconstruction projects. The Traffic Signal and Street Lighting program is primarily focused on technological maintenance and repair projects for the City's lighting system, as well as on street light pole replacement.



2012-13 CIP Projects - Transportation and R.O.W. Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Arterial-Collector, and Residential Street Asset Preservation: 5499741	General Obligation Bonds	2,550,169	2,868,675	5,418,844	2,965,661	3,262,227	3,262,227	3,262,227	18,171,186
Bridge Maintenance: 5499891	Capital Projects Fund Balance	368,040	-	368,040	-	-	-	-	368,040
	General Obligation Bonds	300,000	-	300,000	300,000	300,000	300,000	300,000	1,500,000
	Project Total	668,040	-	668,040	300,000	300,000	300,000	300,000	1,868,040
Holdeman Alley Improvement Project: NA	Federal Grants - CMAQ	-	-	-	531,098	-	-	-	531,098
	General Obligation Bonds	-	-	-	32,102	-	-	-	32,102
	Project Total	-	-	-	563,200	-	-	-	563,200
Minor Concrete Improvements: 5404381	Capital Projects Fund Balance	130,700	-	130,700	-	-	-	-	130,700
	General Obligation Bonds	-	209,300	209,300	209,300	209,300	209,300	209,300	1,046,500
	Project Total	130,700	209,300	340,000	209,300	209,300	209,300	209,300	1,177,200
Neighborhood Transportation Management: 5499921	Capital Projects Fund Balance	28,887	-	28,887	-	-	-	-	28,887
North Tempe Alley Improvement Project: NA	Federal Grants - CMAQ	-	-	-	961,105	-	-	-	961,105
	General Obligation Bonds	-	-	-	58,095	-	-	-	58,095
	Project Total	-	-	-	1,019,200	-	-	-	1,019,200
Pavement Management System: 5490784	Capital Projects Fund Balance	13,914	-	13,914	-	-	-	-	13,914
Railroad Quiet Zone: 5401901	Capital Projects Fund Balance	382,666	-	382,666	-	-	-	-	382,666
Residential Street Asset Preservation: 5499941	Capital Projects Fund Balance	350,989	-	350,989	-	-	-	-	350,989
Street Sweeper: 5405261	Federal Grants - CMAQ	-	216,890	216,890	-	-	-	-	216,890
	General Obligation Bonds	-	13,110	13,110	-	-	-	-	13,110
	Project Total	-	230,000	230,000	-	-	-	-	230,000
Transportation and R.O.W. Program Total		4,125,365	3,307,975	7,433,340	5,057,361	3,771,527	3,771,527	3,771,527	23,805,282

Arterial-Collector, and Residential Street Asset Preservation



Project Description

This project provides for the reconstruction, resurfacing, and ongoing preventative maintenance of arterial and residential street segments that have exceeded their design life or need significant repair. Improvements are necessary in areas to ensure accessibility and safety for residents and businesses adjacent to these areas and to accommodate all modes of traffic including pedestrians, bicyclists, and vehicular traffic. Reconstructing, resurfacing and rehabilitating streets increases the strength and the durability of the roadway, while maintenance costs for the next 10 years will decrease.

Estimated Project Costs

Legal / Administration	\$172,434
Land Acquisition	\$0
Permit Fees	\$338,223
Design and Engineering	\$159,000
Survey / Staking	\$0
Construction Management	\$20,000
Furnishings / Equipment	
Construction / Improvement	\$17,027,419
Geotech / Material Testing	\$454,110
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$18,171,186

Project Number: 5499741
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds	\$5,418,844
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New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$5,418,844	\$2,965,661	\$3,262,227	\$3,262,227	\$3,262,227	\$18,171,186

Bridge Maintenance



Project Description

In a report every other year, ADOT identifies specific repairs and maintenance required on the City of Tempe bridges. As part of the annual bridge capital maintenance asset management program; the City's bridge inventory includes: 32 vehicular bridges and 11 bike/pedestrian and light vehicle bridges. The scope of work includes replacement of damaged joints, joint seals and diaphragms, cleaning debris out of the joints to allow them to function properly, posting of vertical clearance signs, repair of damaged structural members and guard, replacement of missing bolts and nuts from railings, correction of settlement and subsidence at abutments and miscellaneous other items. Bridges maintained this year will be the Mill Avenue and Rural Road bridges which both require joint repair.

Estimated Project Costs

Legal / Administration	\$9,360
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$149,760
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,556,040
Geotech / Material Testing	\$152,880
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,868,040

Project Number: 5499891
Estimated Start Date: 07/01/12
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance	\$368,040
General Obligation Bonds	\$300,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$668,040	\$300,000	\$300,000	\$300,000	\$300,000	\$1,868,040

Holdeman Alley Improvement Project



Project Description

The city of Tempe has an ongoing alley reconstruction/stabilization program which includes removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys. This project would stabilize approximately 4.25 of the City's 165 miles of alleys in the area from University to Broadway, Priest to Hardy. The primary environmental benefit derived from the project is a reduction in dust emissions due to activity in the alley.

The Holdeman Neighborhood area was identified in the City's Congestion Mitigation Air Quality (CMAQ) funding request through the Maricopa Association of Governments (MAG) in the Paving Unpaved Road Projects category for its regional proximity to Phoenix and to County air quality monitoring stations in South Scottsdale and near the intersection of College Ave. and Apache Blvd.

2012-13 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$9,000
Design and Engineering	\$54,000
Survey / Staking	\$5,000
Construction Management	\$32,000
Furnishings / Equipment	\$0
Construction / Improvement	\$450,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$3,200
Total	\$563,200

Project Number: NA
Estimated Start Date: 08/01/13
Estimated Completion Date: 11/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$563,200	\$0	\$0	\$0	\$563,200

Minor Concrete Improvements



Project Description

This project supplements the City's concrete program which is comprised of two employees who handle smaller less complex jobs. This project will provide for the emergency replacement of broken curbs, gutters, and sidewalks throughout the city. Other uses of the project include the construction of curbs, gutters, sidewalks and ADA accessible ramps to improve the continuity of the infrastructure and to improve accessibility and mobility for pedestrians in various areas. This project is also used in emergency call out situations as needed. Funds for the project will allow for approximately 18,000 square feet of minor concrete repair per year.

Additionally, \$70,000 of the funds will be used to hire a consultant to assess the condition and safety of the concrete in the City's Right of Way including curb, gutter and ramps. As this is the first time this survey has been performed, staff is expecting a larger than normal workload. Funding this project is crucial to the citizens by providing safe and easily traversable pedestrian access throughout the city.

2012-13 Source of Funds

Capital Projects Fund Balance	\$130,700
General Obligation Bonds	\$209,300

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,177,200
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,177,200

Project Number: 5404381
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/13

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$340,000	\$209,300	\$209,300	\$209,300	\$209,300	\$1,177,200

Neighborhood Transportation Management



Project Description

This project will provide the Transportation Division with resources to strengthen its ability to address neighborhood traffic concerns, such as the installation of traffic calming devices, including speed humps.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$28,887
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$28,887

Project Number: 5499921
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$28,887

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$28,887	\$0	\$0	\$0	\$0	\$28,887

North Tempe Alley Improvement Project



Project Description

The city of Tempe has an ongoing alley reconstruction/stabilization program which includes removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys. This project would stabilize approximately 6% of the city's alleys which equates to the completion of approximately 10.5 of the 165 miles of alleys in the City. The improvement will include the areas from Miller Rd. to Crosscut Canal, Curry Rd. to Continental Dr. The primary environmental benefit derived from the project is a reduction in dust emissions due to activity in the alley.

The North Tempe Neighborhood area was identified in the city's Congestion Mitigation Air Quality (CMAQ) funding request through the Maricopa Association of Governments (MAG) in the Paving Unpaved Road Projects category for its regional proximity to Phoenix and Scottsdale, and due to the fact that it is very close - approximately 2 miles - to the County's PM-10 air quality monitoring station in South Scottsdale.

Estimated Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$15,000
Design and Engineering	\$96,000
Survey / Staking	\$8,000
Construction Management	\$56,000
Furnishings / Equipment	\$0
Construction / Improvement	\$800,000
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$25
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$28,175
Total	\$1,019,200

Project Number: NA
Estimated Start Date: 08/01/13
Estimated Completion Date: 11/30/13

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$1,019,200	\$0	\$0	\$0	\$1,019,200

Pavement Management System



Project Description

Tempe's Pavement Management program, RoadMatrix, is a tool to help maintain the City's pavement network. Pavement condition data is collected by a consultant on a yearly basis using specialized equipment to evaluate the condition of the road and the quality of the ride. This data is used by staff to optimize street funding in the most cost effective and objective way possible.

Transportation Maintenance is responsible for maintaining 1241 lane miles of roadway. The software is a crucial tool that will help improve the average current Pavement Quality Index of 59 to the City's goal of 75. Employees track the condition and history of the City's pavement network and ultimately budget money for the correct type of maintenance at the most opportune time.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$13,914
Total	\$13,914

Project Number: 5400784
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Capital Projects Fund Balance \$13,914

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$13,914	\$0	\$0	\$0	\$0	\$13,914

Railroad Quiet Zone



Project Description

In January 2012, the City of Tempe, in conjunction with the Union Pacific Railroad and the regulatory agencies of the Federal Railroad Administration and the Arizona Corporation Commission, established a railroad quiet zone in Tempe. This capital project would extend the quiet zone along the six mile Union Pacific Railroad industrial spur line which begins at the 13th Street railroad crossing immediately east of Farmer Avenue, traveling south to the Warner Road crossing approximately one quarter mile west of Kyrene Road. The establishment of the quiet zone would prohibit the sounding of train horns at all highway rail crossing except in certain safety situations determined by the judgment of the train engineer. It is the intent of the project to establish quiet zone conditions at the Broadway Road, Alameda Drive, Southern Avenue, Baseline Road, Guadalupe Road, Divot Drive, Elliot Road, Carver Lane and Warner Road rail crossings.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$382,666
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$382,666

Project Number: 5401901
Estimated Start Date: Ongoing
Estimated Completion Date: 08/30/12

2012-13 Source of Funds

Capital Projects Fund Balance \$382,666

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$382,666	\$0	\$0	\$0	\$0	\$382,666

Residential Street Asset Preservation



Project Description

The Residential Street Asset Preservation CIP provides for ongoing preventative maintenance of local/residential streets throughout the city in accordance with the city's pavement management program. Examples of the various types of treatments include: Slurry Seal, Cape Seal, Smooth Seal, Seal Coat, Crack Seal, Mill and Overlay, and Reconstruction. Allocating funds and effort now will prevent future reconstruction costs that can be 10 times higher than routine maintenance.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$350,989
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$350,989

Project Number: 5499941
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$350,989

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$350,989	\$0	\$0	\$0	\$0	\$350,989

Street Sweeper



Project Description

The Transportation Division is tasked with the maintenance and cleaning/sweeping of Tempe streets as part of the city's responsibility to minimize the amount of debris and pollutants that are discharged to the storm sewer system. As part of this program, arterial streets are swept once every two weeks and residential, collector and industrial streets are swept once every month. This request will allow the city to procure one street sweeper needed to address the requirements of the Storm water Management Plan as well as keep the streets of Tempe safe and clean. The Transportation Division plans to apply for CMAQ funds to assist in procuring this street sweeper.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$230,000
Total	\$230,000

Project Number: 5405261
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Federal Grant - CMAQ \$216,890
 General Obligation Bonds \$13,110

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$230,000	\$0	\$0	\$0	\$0	\$230,000



2012-13 CIP Projects - Traffic Signals and Street Lighting Program

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2012-13 Capital Budget Appropriations	Total 2012-13 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2013-14	2014-15	2015-16	2016-17	
Elliot, Guadalupe, and Warner ITS Improvements: NA	Federal Grants - CMAQ	-	-	-	383,333	-	-	-	383,333
	General Obligation Bonds	-	-	-	164,286	-	-	-	164,286
	Project Total	-	-	-	547,619	-	-	-	547,619
Fiber Optic Installation: 6904479	Federal Grants - CMAQ	354,410	-	354,410	-	-	-	-	354,410
	General Obligation Bonds	50,917	-	50,917	-	-	-	-	50,917
	Project Total	405,327	-	405,327	-	-	-	-	405,327
Pedestrian Countdown Timers and Audible Pedestrian Push-Buttons: NA	Federal Grant - HSIP	-	-	-	106,917	106,917	106,917	-	320,751
Pedestrian Countdown Timers and Emergency Preemption Cards: 6905279	Federal Grant - HSIP	-	76,800	76,800	-	-	-	-	76,800
Street Light Pole Structural Replacement: 6999849	General Obligation Bonds	-	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Streetlight Upgrade / New Install: 6999869	General Obligation Bonds	-	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
Traffic Control Cabinets and Hardware Replacement: NA	Federal Grants - CMAQ	-	-	-	539,000	-	-	-	539,000
	General Obligation Bonds	-	-	-	231,000	-	-	-	231,000
	Project Total	-	-	-	770,000	-	-	-	770,000
Traffic Signal Foundation: 6903389	Capital Projects Fund Balance	91,523	-	91,523	-	-	-	-	91,523
	General Obligation Bonds	-	60,000	60,000	150,000	150,000	150,000	150,000	660,000
	Project Total	91,523	60,000	151,523	150,000	150,000	150,000	150,000	751,523
Traffic Signal L.E.D. Replacement: 6906696	General Obligation Bonds	43,389	100,000	143,389	100,000	100,000	100,000	100,000	543,389
Undergrounding Contributions: 6901391	Capital Projects Fund Balance	180,487	-	180,487	-	-	-	-	180,487
Wireless Communication & CCTV Monitoring: 6903639	Federal Grants - CMAQ	218,400	-	218,400	-	-	-	-	218,400
	General Obligation Bonds	93,600	-	93,600	-	-	-	-	93,600
	Project Total	312,000	-	312,000	-	-	-	-	312,000
Traffic Signals and Street Lighting Program Total		1,032,726	686,800	1,719,526	2,124,536	806,917	806,917	700,000	6,157,896

Elliot, Guadalupe, and Warner ITS Improvements



Project Description

The project will be used to monitor and adjust signal timing to improve traffic flow along the corridors of Elliot Rd, Guadalupe Rd, and Warner Rd. Tempe currently uses leased phone lines to facilitate traffic signal operations. This project will use an existing conduit along Elliot for fiber optic communication to the signals. Wireless radios will be used to provide communication to signals along Guadalupe and Warner. CCTVs will be placed at the major intersections for traffic monitoring. As a result the city will be able to monitor traffic conditions and adjust signal timing through centralized command and control strategies designed to help Tempe relieve or minimize congestion.

This project promotes multi-jurisdictional congestion relief by providing a platform to better coordinate traffic signals as well as responding to accidents/incidents in a more cooperative and efficient process.

2012-13 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$547,619
Total	\$547,619

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/14

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$547,619	\$0	\$0	\$0	\$547,619

Fiber Optic Installation



Project Description

Tempe currently uses leased phone lines to facilitate traffic signal operations. This project will install fiber optic communications media to each signalized intersection along University Dr from Mill to McClintock utilizing existing fiber conduits resulting in 18 more signals being on city-owned infrastructure and reducing the leased phone line costs. The fiber run will tie into the ADOT Freeway Management System Fiber optic infrastructure as the backbone to bring data back to the Transportation Management Center at the Transportation Center. This upgrade will require minimal design and construction due to conduits already being in place and the close proximity of the terminating traffic signal control cabinets to the ADOT fiber optic backbone. After completion of this project, one-quarter of the signal system (58 signals out of 221) will be on fiber.

2012-13 Source of Funds

Federal Grants - CMAQ	\$354,410
General Obligation Bonds	\$50,917

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$405,327
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$405,327

Project Number: 6904479
Estimated Start Date: 12/01/11
Estimated Completion Date: 12/31/12

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$405,327	\$0	\$0	\$0	\$0	\$405,327

Pedestrian Countdown Timers and Audible Pedestrian Push-Buttons



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade all remaining pedestrian signal heads in the City of Tempe to pedestrian countdown timers. In addition, in order to better serve our visually impaired community, this project will also procure equipment needed to upgrade 11 intersections along the light rail alignment and near Tempe high schools with audible pedestrian push-buttons.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$320,751
Total	\$320,751

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/16

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$106,917	\$106,917	\$106,917	\$0	\$320,751

Pedestrian Countdown Timers and Emergency Preemption Cards



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade all pedestrian signal heads at intersections along the light rail alignment in the City of Tempe to pedestrian countdown timers. In addition, in order to improve emergency vehicle response times and safety of first-responders, this project will also procure equipment needed to upgrade 20 intersections along the Rural Road and McClintock Drive corridors with new emergency preemption cards. Emergency preemption cards improve emergency response times and improve safety for Police and Fire personnel by allowing the traffic signals to change based on the needs of these first-responders. Research has demonstrated that properly functioning emergency preemption can result in a 30% reduction in overall crashes.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$76,800
Total	\$76,800

Project Number: 6905279
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2012-13 Source of Funds

Federal Grant - HSIP \$76,800

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$76,800	\$0	\$0	\$0	\$0	\$76,800

Street Light Pole Structural Replacement



Project Description

The project will fund the replacement of existing rusted streetlight poles that are direct buried and provide funding to replace all direct buried street light poles to meet our current streetlight pole foundation standards. Of the 11,080 streetlight poles there are approximately 3,755 direct buried street light poles left in the City's inventory that need to be replaced at a rate of 100-150 per year (based on their corrosion factor as provided by a study completed in October 2011).

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,250,000

Project Number: 6999849
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$250,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000

Streetlight Upgrade / New Install



Project Description

This project provides dual side street lighting on arterial streets. Additionally, the project provides for the installation of new residential streetlights per citizen request at various locations, as well as upgrading up to 4000 existing inefficient streetlight luminaires to environmentally friendly and energy efficient luminaires throughout the city.

Currently Identified locations for upgrades include the following:
 - South side Warner Rd between Bonarden and Juniper (13) lights
 - South side of Southern Ave between Price Rd and East city limits (15) lights
 - East side Priest Dr. North of Warner (15) lights
 - Southside of Southern Ave between Priest Dr. and 48th Street (14)

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,000,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,000,000

Project Number: 6999869
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$200,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000

Traffic Control Cabinets and Hardware Replacement



Project Description

Current traffic signal control cabinets were installed in 1995 through 1998 and will be approaching the typical product life cycle in the year 2013. As part of a continuing transportation management program this project will procure equipment needed to upgrade and rehabilitate 70 of the city's 221 traffic signal control cabinets.

This project will allow Tempe to replace its aging traffic signal cabinet inventory with new signal cabinets, which will reduce maintenance costs in the long term and improve the reliability and safety of the traffic signal control operation, thus minimizing our liability. The new traffic signal cabinets will provide the city's signal technicians with enhanced diagnostic tools to troubleshoot intersection malfunctions. These enhanced capabilities will facilitate increased intersection reliability and ultimately provide for safer traffic control operations.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$770,000
Total	\$770,000

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/14

2012-13 Source of Funds

NA

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$0	\$770,000	\$0	\$0	\$0	\$770,000

Traffic Signal Foundation



Project Description

This project provides for the installation of new traffic signal foundations and installation/repair of equipment related to the traffic signal system. These improvements are necessary to keep the signal system functioning properly.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$751,523
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$751,523

Project Number: 6903389
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance	\$91,523
General Obligation Bonds	\$60,000

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$151,523	\$150,000	\$150,000	\$150,000	\$150,000	\$751,523

Traffic Signal L.E.D. Replacement



Project Description

Purpose of this project is to retrofit older green LED's with new ones. Current green LED's have been installed since 2002 and have exceed their average life cycle and will need to be replaced. The LED (Light Emitting Diodes) program has provided significant energy savings and has reduced maintenance costs since all of the incandescent lamps in the City's traffic signals were retrofitted. The LEDs have reduced transportation maintenance costs by \$120,000 a year in off-hour call out costs, replacement bulbs and energy savings. LED modules have a life span of seven years and were first installed in 2002. This ongoing project will change out 2700 green LED lamps over the 5 year CIP to newer LED's, which would result in an average conversion rate of approximately 44 intersections per year.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$543,389
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$543,389

Project Number: 6906696
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

General Obligation Bonds \$143,389

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$143,389	\$100,000	\$100,000	\$100,000	\$100,000	\$543,389

Undergrounding Contributions



Project Description

This project facilitates the undergrounding of overhead utility lines in conjunction with a development/redevelopment project (other than detached, single family dwellings) that has been submitted for approval under the provision of the Tempe City Code.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$180,487
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$180,487

Project Number: 6901391
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2012-13 Source of Funds

Capital Projects Fund Balance \$180,487

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$180,487	\$0	\$0	\$0	\$0	\$180,487

Wireless Communication & CCTV Monitoring



Project Description

This project will install wireless communications media for command and control operations and Closed Circuit Television (CCTV) monitoring at 30 out of our 221 traffic signals. The project will be used to adjust signal timing to improve traffic flow at congested intersections.

The CCTV monitoring will allow traffic conditions to be monitored during incidents, special events, construction, and congested times. This real time monitoring provides the advantage of being able to manage signals based on what is happening in the field. The CCTV monitoring can also be used to observe resident concerns that are being studied by Traffic Engineering staff.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$312,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$312,000

Project Number: 6903639
Estimated Start Date: 07/01/12
Estimated Completion Date: 07/01/13

2012-13 Source of Funds

Federal Grants - CMAQ	\$218,400
General Obligation Bonds	\$93,600

New Appropriations by Fiscal Year

2012-13	2013-14	2014-15	2015-16	2016-17	Total 5 Year
\$312,000	\$0	\$0	\$0	\$0	\$312,000