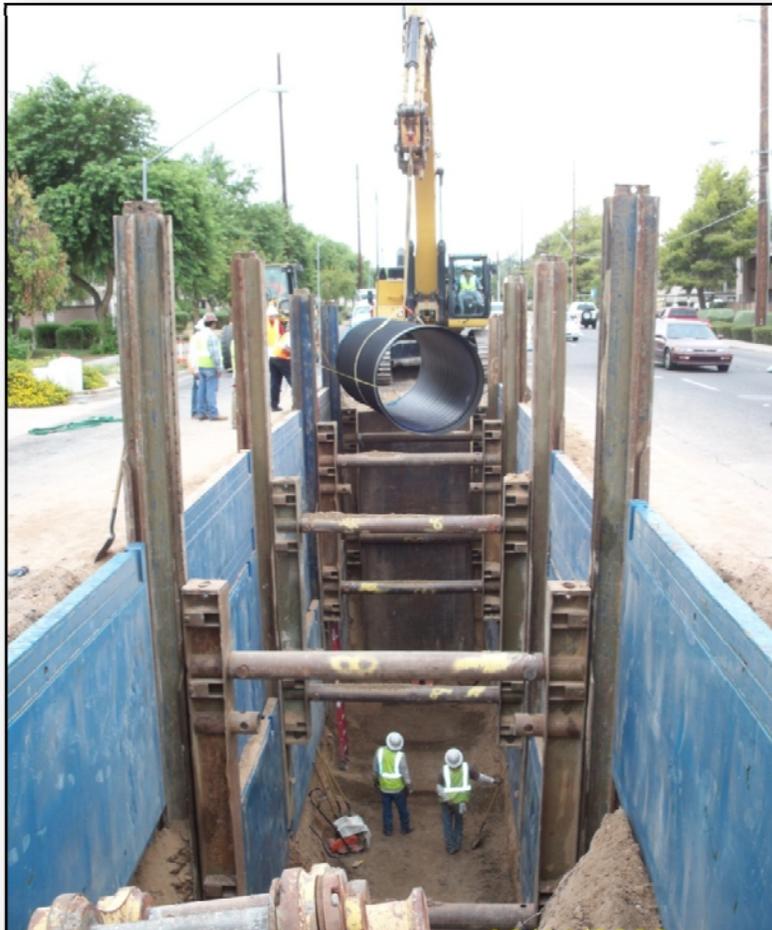


FLOOD CONTROL CONSTRUCTION FUND

FY 2011 projects include the completion of several storm drain projects including 67th Avenue between Peoria and the Arizona Canal Diversion Channel (ACDC), Northern Avenue between 47th and 63rd Avenues, and Camelback Road between 59th and 75th Avenues which is part of the Bethany Home Outfall Channel Project. With the exception of the ongoing AZDES Permit Project, no new funding is included in the first five years of the CIP plan due to the continued decline in Glendale's secondary assessed valuation. The AZDES Permit Project ensures that the city remains compliant with the requirements of a permit obtained under the Clean Water Act.



Project Name: Northern Ave. SD-47th to 63rd
Funding Source: G.O. Bond
Fund #: 2180
Project #: 79008

**FY 2011 - 2020 Capital Improvement Plan
Fund and Project Summary**

2180 - Flood Control Construction

Category: 20%

	<u>FY 2011:</u>	<u>FY 2012:</u>	<u>FY 2013:</u>	<u>FY 2014:</u>	<u>FY 2015:</u>	<u>FYs 16-20:</u>
Estimated Beginning Balance:	\$21,376,020	\$2,129,492	\$1,973,485	\$1,820,511	\$1,670,026	\$1,518,639
Revenue						
Bond Proceeds^	0	0	0	0	0	33,970,000
G.O. Bond Investment Revenue	5,877	8,196	13,251	17,400	15,896	37,527
Intergovernmental Revenue	0	0	0	0	0	7,635,000
Miscellaneous Rev.	500,000	0	0	0	0	0
Total Revenue:	505,877	8,196	13,251	17,400	15,896	41,642,527
Non-Capital Expenses						
Advisor Fees	5,213	3,278	5,300	6,960	6,358	15,011
Total Non-Capital Expenses:	5,213	3,278	5,300	6,960	6,358	15,011
Capital Project Expenses						
	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
79004 Local Drainage Problems	568,286	0	0	0	0	5,293,992
79005 Collector Drains	574,137	0	0	0	0	4,189,724
79006 AZDES Permit	444,363	160,925	160,925	160,925	160,925	804,625
<i>Replacement of Existing Assets</i>						
79010 Storm Water Master Plan	661,406	0	0	0	0	843,750
Sub-Total - Existing Assets	2,248,192	160,925	160,925	160,925	160,925	11,132,091
New Assets						
79000 Bethany Home Outfall Channel	4,996,272	0	0	0	0	0
79001 Bethany Home 58th - 51st	0	0	0	0	0	5,014,601
79002 67th Ave/Peoria to ACDC	871,516	0	0	0	0	0
79007 Greenway Drain - 59th-67th	0	0	0	0	0	3,684,359
79008 Northern Ave. SD- 47th to 63rd	11,447,287	0	0	0	0	0
79013 Bethany Home, 79th-67th (SD)	23,000	0	0	0	0	10,608,840
T2910 Bethany Home, 67th-58th (SD)	0	0	0	0	0	8,060,445
T2940 Greenway Drain - 51st-59th	0	0	0	0	0	3,684,074
T2941 *67th Ave Frier - Oranewood SD	0	0	0	0	0	428,879
T2942 *47th Ave SD Harmont - Northern	0	0	0	0	0	304,009
T2943 *Myrtle Avene Drainage Imp.	0	0	0	0	0	223,884
Sub-Total - New Assets	17,338,075	0	0	0	0	32,009,091
Total Capital Project Expenses:	19,586,267	160,925	160,925	160,925	160,925	43,141,182
Total FY 2011 Funding:	19,747,192					
Estimated Ending Balance:	\$2,129,492	\$1,973,485	\$1,820,511	\$1,670,026	\$1,518,639	\$4,973

*New Project

^Will require additional voter authorization in last 5 years of the plan.

FY 2011-2020 Capital Improvement Plan

Capital Project Expenses Detail

2180 - Flood Control Construction

Category: 20%

Project: 79004 - Local Drainage Problems (I)

Funding Source: General Obligation Bonds

Project Description:

Construct localized storm drain improvements to mitigate drainage or flooding problems. This is an ongoing program that typical addresses drainage problems in older neighborhoods, residential areas, and extend existing storm drain systems.

Capital Costs:

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Construction	\$0	\$0	\$0	\$0	\$0	\$5,099,284
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$23,715
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$120,000
Arts	\$0	\$0	\$0	\$0	\$0	\$50,993
Sub-Total New Funding	\$0	\$0	\$0	\$0	\$0	\$5,293,992
FY 2011 Carryover	\$568,286	\$0	\$0	\$0	\$0	\$0
TOTAL	\$568,286	\$0	\$0	\$0	\$0	\$5,293,992

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79005 - Collector Drains (I)

Funding Source: General Obligation Bonds

Project Description:

Ongoing program to construct storm drain improvements on collector streets to mitigate drainage and flooding problems.

Capital Costs:

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Construction	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$51,724
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$98,000
Arts	\$0	\$0	\$0	\$0	\$0	\$40,000
Sub-Total New Funding	\$0	\$0	\$0	\$0	\$0	\$4,189,724
FY 2011 Carryover	\$574,137	\$0	\$0	\$0	\$0	\$0
TOTAL	\$574,137	\$0	\$0	\$0	\$0	\$4,189,724

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2011-2020 Capital Improvement Plan Capital Project Expenses Detail

2180 - Flood Control Construction

Category: 20%

Project: 79006 - AZDES Permit (I)

Funding Source:

General Obligation Bonds

Project Description:

In 1999, the City of Glendale obtained a permit under the Clean Water Act for the National Pollutant Discharge Elimination System. The permit requires monitoring of storm water flows and preparation of annual reports. This funding will insure that the city can continue to meet the requirements of the permit and avoid fines up to \$25,000 per day.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Finance Charges	\$3,925	\$3,925	\$3,925	\$3,925	\$3,925	\$19,625
Miscellaneous/Other	\$157,000	\$157,000	\$157,000	\$157,000	\$157,000	\$785,000
Sub-Total New Funding	\$160,925	\$160,925	\$160,925	\$160,925	\$160,925	\$804,625
FY 2011 Carryover	\$444,363	\$0	\$0	\$0	\$0	\$0
TOTAL	\$605,288	\$160,925	\$160,925	\$160,925	\$160,925	\$804,625

Operating Description:

O and M of storm water monitoring will be done by the United States Geological Survey agency through an IGA requiring annual payments.

Project: 79010 - Storm Water Master Plan (R)

Funding Source:

General Obligation Bonds

Project Description:

Develop a citywide master plan to determine the adequacy of existing facilities and prioritize new facilities. Project will include detailed aerial mapping and hydrologic modeling to determine storm water flows and volumes.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$18,750
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$825,000
Sub-Total New Funding	\$0	\$0	\$0	\$0	\$0	\$843,750
FY 2011 Carryover	\$661,406	\$0	\$0	\$0	\$0	\$0
TOTAL	\$661,406	\$0	\$0	\$0	\$0	\$843,750

Operating Description:

No additional O and M is needed.

Project: 79000 - Bethany Home Outfall Channel (N)

Funding Source:

General Obligation Bonds

Project Description:

This is the last phase of the Bethany Home Outfall Channel project with the Flood Control District of Maricopa County. The portions of the outfall channel between the Loop 101 and 83rd Avenue are complete and the storm drain piping between 83rd and 75th avenues along the Grand Canal are complete. This phase will complete the storm drain in Camelback Road from 75th to 59th avenues.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
FY 2011 Carryover	\$4,996,272	\$0	\$0	\$0	\$0	\$0
TOTAL	\$4,996,272	\$0	\$0	\$0	\$0	\$0

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility. The outfall channel will be maintained by the flood control district.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2011-2020 Capital Improvement Plan Capital Project Expenses Detail

2180 - Flood Control Construction

Category: 20%

Project: 79001 - Bethany Home 58th - 51st (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain along Bethany Home Road between 51st and 58th Avenues including mainline pipe, catch basins and appurtenances.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$300,000
Construction	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$112,551
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$79,550
Arts	\$0	\$0	\$0	\$0	\$0	\$40,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$400,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$82,500
TOTAL	\$0	\$0	\$0	\$0	\$0	\$5,014,601

Operating Description: O and M will not occur until project is actually constructed in the future. Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79002 - 67th Ave/Peoria to ACDC (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain on 67th Avenue from Peoria to the Arizona Canal Diversion Channel to include mainline piping, catch basins and appurtenances. Through an IGA, 50% of the storm drain cost will be shared with the Flood Control District of Maricopa Co

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
FY 2011 Carryover	\$871,516	\$0	\$0	\$0	\$0	\$0
TOTAL	\$871,516	\$0	\$0	\$0	\$0	\$0

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79007 - Greenway Drain - 59th-67th (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain at Greenway Road from 59th to 67th Avenues. Project includes catch basins and appurtenances. This project will intercept storm water flows east of 67th Avenue.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$2,640,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$89,869
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$58,090
Arts	\$0	\$0	\$0	\$0	\$0	\$26,400
Contingency	\$0	\$0	\$0	\$0	\$0	\$370,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$3,684,359

Operating Description: No additional O and M is needed.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2011-2020 Capital Improvement Plan

Capital Project Expenses Detail

2180 - Flood Control Construction

Category: 20%

Project: 79008 - Northern Ave. SD- 47th to 63rd (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain on Northern Avenue from the basin at 63rd Avenue to approximately 47th Avenue, and a raw 24" water line from 51st Avenue to 63rd Avenue.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
FY 2011 Carryover	\$11,447,287	\$0	\$0	\$0	\$0	\$0
TOTAL	\$11,447,287	\$0	\$0	\$0	\$0	\$0

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79013 - Bethany Home, 79th-67th (SD) (N)

Funding Source: General Obligation Bonds

Project Description: Construct storm drain pipe, inlets, and other appurtenances in Bethany Home Road from 79th Avenue to 67th Avenue. Carryover in FY 2011 is for the design of the 71st to 79th Avenue portion of the project.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$600,000
Construction	\$0	\$0	\$0	\$0	\$0	\$9,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$40,500
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$90,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$785,840
Sub-Total New Funding	\$0	\$0	\$0	\$0	\$0	\$10,608,840
FY 2011 Carryover	\$23,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$23,000	\$0	\$0	\$0	\$0	\$10,608,840

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: T2910 - Bethany Home, 67th-58th (SD) (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain in Bethany Home Road from 67th to 58th Avenues. Construction costs to be shared with Maricopa County Flood Control District (50%). Project will include storm drain pipe, catch basins and appurtenances.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$1,200,000
Construction	\$0	\$0	\$0	\$0	\$0	\$6,000,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$60,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$597,070
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$110,875
TOTAL	\$0	\$0	\$0	\$0	\$0	\$8,060,445

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2011-2020 Capital Improvement Plan Capital Project Expenses Detail

2180 - Flood Control Construction

Category: 20%

Project: T2940 - Greenway Drain - 51st-59th (N)

Funding Source: General Obligation Bonds

Project Description: Construct a storm drain in Greenway Road between 51st and 59th Avenues to include mainline piping, catch basins, and appurtenances.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$2,630,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$89,869
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$57,905
Arts	\$0	\$0	\$0	\$0	\$0	\$26,300
Contingency	\$0	\$0	\$0	\$0	\$0	\$380,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$3,684,074

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: T2941* - 67th Ave Frier - Orangewood SD (N)

Funding Source: General Obligation Bonds

Project Description: Design and construct 800 feet of storm drain in 67th Avenue between Frier Drive and Orangewood Avenue. Project will extend an existing drainage system. Projects includes the installation of four catch basins, two manholes, and connector pipes.

Capital Costs:	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$10,000
Construction	\$0	\$0	\$0	\$0	\$0	\$350,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$8,750
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$17,640
Arts	\$0	\$0	\$0	\$0	\$0	\$3,500
Contingency	\$0	\$0	\$0	\$0	\$0	\$38,989
TOTAL	\$0	\$0	\$0	\$0	\$0	\$428,879

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

FY 2011-2020 Capital Improvement Plan

Capital Project Expenses Detail

2180 - Flood Control Construction

Category: 20%

Project: T2942* - 47th Ave SD Harmont - Northern (N)

Funding Source:

General Obligation Bonds

Project Description:

Project will design and construct storm drain trunk line, laterals, catch basins, man holes and appurtenances in 47th Avenue from Harmont Drive to Northern Avenue.

Capital Costs:

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$10,000
Construction	\$0	\$0	\$0	\$0	\$0	\$250,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$6,250
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$12,740
Arts	\$0	\$0	\$0	\$0	\$0	\$2,500
Contingency	\$0	\$0	\$0	\$0	\$0	\$22,519
TOTAL	\$0	\$0	\$0	\$0	\$0	\$304,009

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: T2943* - Myrtle Avenue Drainage Imp. (N)

Funding Source:

General Obligation Bonds

Project Description:

Project to construct a small drainage system in 59th Avenue from Myrtle Avenue to Glenn Drive, and a concrete valley gutter and apron at the intersection of Myrtle Avenue and 55th Avenue. This will extend an existing drainage system, and mitigate some street flooding issues.

Capital Costs:

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FYs 16-20
Design	\$0	\$0	\$0	\$0	\$0	\$10,000
Construction	\$0	\$0	\$0	\$0	\$0	\$180,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$4,500
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$11,000
Arts	\$0	\$0	\$0	\$0	\$0	\$1,800
Contingency	\$0	\$0	\$0	\$0	\$0	\$16,584
TOTAL	\$0	\$0	\$0	\$0	\$0	\$223,884

Operating Description:

Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset