



Small Project Assistance Program

For Flood Control Capital Projects

Fiscal Year 2016

Administrative edits to this document may be authorized by the Chief Engineer and General Manager of the Flood Control District of Maricopa County under the authority granted by Resolution FCD 2009R003A.

Flood Control District of Maricopa County, 2801 West Durango Street, Phoenix, Arizona 85009 (602) 506-1501

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Small Project Assistance Program

Purpose of the Program

In accordance with Flood Control District of Maricopa County (District) Resolution 2009R003A, the District prioritizes and funds potential local flood control capital projects through its annual Small Project Assistance Program. Resolution 2009R003A authorizes the program.

The Small Project Assistance Program has three purposes:

- Facilitate the mitigation of flood hazards that are local in nature but pose a risk to the citizens and property of Maricopa County;
- Using consistent, published criteria, objectively evaluate submitted local flood control capital projects requested by municipalities;
- Allow for the rapid implementation of recommended local flood control capital projects with minimal administrative delay.

Scope of the Program

The following general limitations exist on District assistance offered under this program:

- The terms of the District's standard Small Project Assistance Program Intergovernmental Agreement (generally reported below) are mandatory;
- Annual District contributions for all projects submitted under this program is based on Capital Improvement Program funding availability;
- The District will participate in no more than five local flood control projects per municipality in the program fiscal year.

Exceptions to the policies of this program are not granted. However, projects may alternately be submitted to the District's Capital Improvement Program Prioritization Procedure that allows for additional implementation flexibility.

Procedure

No later than the 1st Friday of each October, municipalities of Maricopa County must submit project requests to the District for construction in the following fiscal year. These submittals must be received no later than 11:59 PM.

Municipalities may submit no more than five project requests in any given year. Submittals are accomplished through a web application located at www.fcd.maricopa.gov/spap, which requires submitters to answer objective questions, provide a list of flooding dates and addresses where structures have been flooded and attach a map approximately reflecting project elements. Each submittal must include supporting documentation to verify the structural flooding. Dates and addresses may be audited at random by the District.

Submittals not meeting these administrative requirements will not be evaluated. Logon information is provided by email to agency points of contact during the first week of August each year. Proposals are objectively scored in accordance with a scoring matrix approved by the District's Flood Control Advisory Board, and scored submittals are ranked.

No set score threshold exists for the approval of projects; rather, an approval threshold is established each year based on available funding. This approval threshold will be no less than forty (40) points.

Projects scoring above the set approval threshold are reviewed by the District's Chief Engineer and General Manager, who may determine that a project would more appropriately be evaluated under the District's Capital Improvement Program Prioritization Procedure.

District staff prepares draft Intergovernmental Agreements for approved projects, and presents these draft Agreements to submitting municipalities for the municipalities' approval. Municipalities must obtain approval for these Intergovernmental Agreements within 45 days of receipt. These Agreements are subsequently forwarded to the District's Board of Directors for District approval.

Municipalities are responsible for completing approved projects over the course of the fiscal year for which the projects were submitted.

Agreement Terms

The District's Small Project Assistance Program Standard Intergovernmental Agreement is a component of this program. Among its terms, the Agreement stipulates that:

- Costs associated with design, rights-of-way acquisition, utility relocation, permitting, construction management, materials testing, survey work, non-flood control features operations and maintenance are the responsibility of the requesting municipality;
- The requesting municipality acts as lead agency for all activities;
- The District will be given an opportunity to review and comment on project plans and specifications, and District comments will be incorporated where feasible;
- District contributions are limited to 75% of construction costs of flood control elements of the project, not to exceed \$250,000;
- The District pays fifty percent (50%) of its cost share contribution upon award of a construction contract for approved projects, and its cost share contribution for remaining construction costs incurred upon completion of construction or prior to the end of the fiscal year for which the project is approved, whichever is first to occur;
- District contributions are limited to project construction costs incurred during the fiscal year for which the project was submitted – subsequent and prior costs are the sole responsibility of the requesting municipality;
- The requesting municipality is responsible for all operations and maintenance and related costs associated with a completed project – District staff will not be available to assist with these efforts.

This standard agreement is mandatory for all projects approved under this procedure; a copy will be provided upon request.

Points of Contact

Planning and Project Management Division Manager: Don Rerick, P.E., 602-506-4878
Capital Improvement Program Supervisor: Patrick Schafer, P.E., 602-506-2206
Project Management Branch Manager: Scott Vogel, P.E., 602-506-4771

Fiscal Year 2016 Small Project Assistance Program Schedule

August 18th, 2014	Notices Mailed to Municipalities
October 3rd, 2014	Municipalities' Proposals Due
October 2014	Proposals Administratively Reviewed and Ranked
October 2014	District Budget Evaluated for Funding Availability
October 2014 – January 2015	IGAs Drafted and Presented for Approval
January 2015 – June 2015	Final Plans and Specifications Completed by Municipalities
Program Fiscal Year	Approved Projects Constructed by Submitting Municipalities
June 30 th , 2016	Cutoff Date for District Reimbursement

Small Project Assistance Program Scoring Matrix

Finite values are assigned to project evaluation questions as follows:

1. Smallest storm event that has flooded residential or commercial structures:

20	2-year
16	5-year
12	10-year
9	50-year
6	Greater than 50-year
0	No documented evidence of damage to residential or commercial structures

2. Number of residential or commercial structures that have historically been flooded:

20	Five or more
16	Four
12	Three
8	Two
4	One
0	Zero

3. Number of recorded storm events that have flooded residential or commercial structures:

15	Three or more
10	Two
5	One
0	Zero

4. Smallest storm event that has caused roadway or access closures:

15	2-year
10	5-year
5	10-year
0	No documented evidence of roadway or access closures during a 10-year or smaller event

5. If work towards final plans and specifications is underway/completed, indicate percent complete:

15	100%
12	90%
10	60%
3	30%
0	Less than 30%

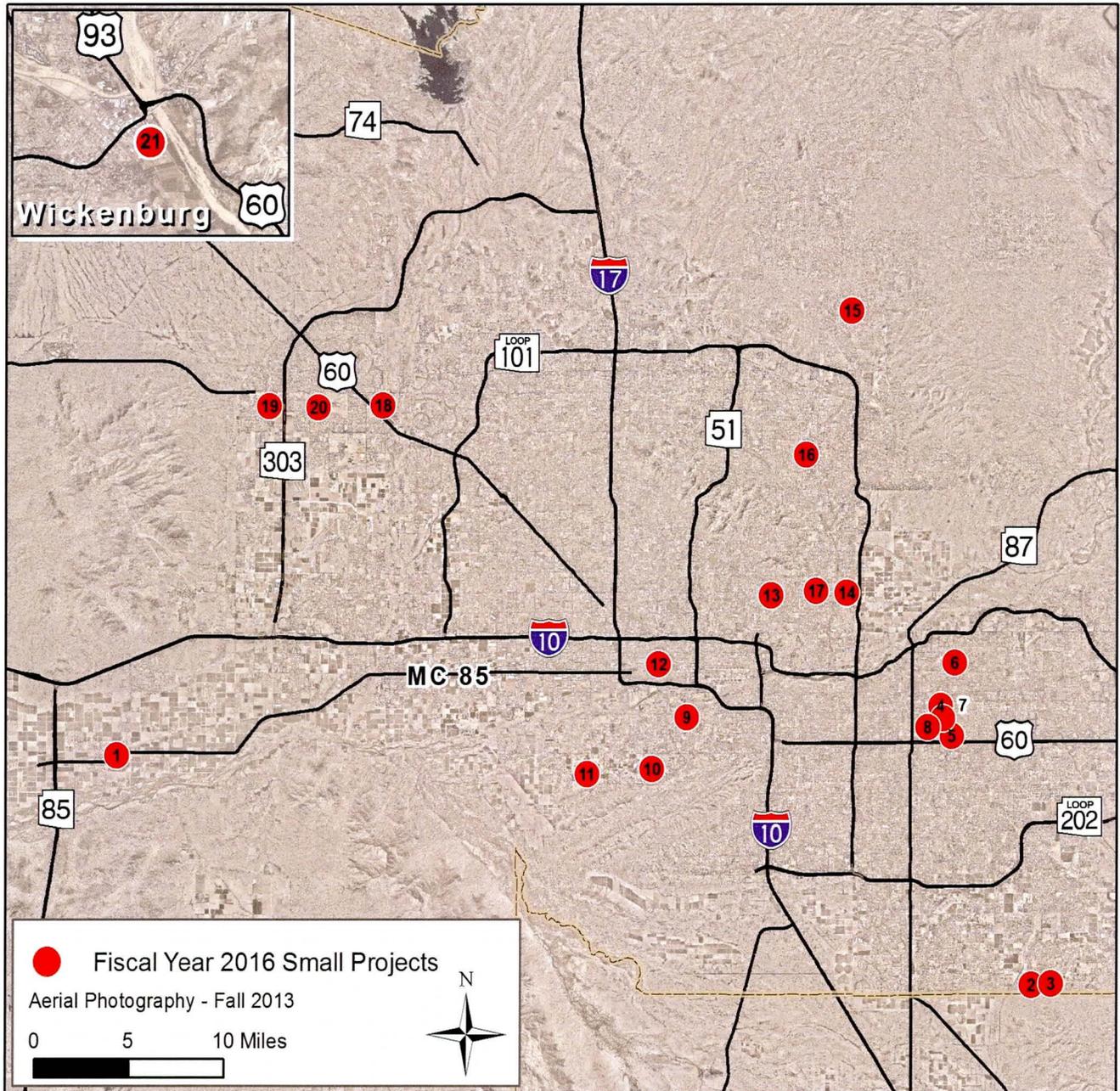
6. Does the submitting municipality own all project rights-of-way or have necessary land rights in place?

10	Yes
0	No

7. Indicate municipality's priority assigned to this project (1, 2, 3, etc.) compared to its other submittals:

5	One
3	Two
0	Three or more

Small Project Assistance Program Submittals For Fiscal Year 2016



Project	Agency	Score
01. Shepard Estates Drainage Improvements	Buckeye	30
02. Coldwater Blvd. Channel from Tucana Ln. to Claiborne Ave.	Gilbert	62
03. 170 th Street and San Tan Boulevard Drainage Improvements	Gilbert	8
04. 2 nd Avenue and Solomon Drainage Improvements	Mesa	62
05. Emerald Acres Drainage Improvements	Mesa	49
06. Royal Palms Drainage Improvements	Mesa	58
07. 9 th Avenue and Horne Detention Basin	Mesa	61
08. 10 th Avenue and Sistine Drainage Improvements	Mesa	66
09. 16 th Street and Violet Drive Storm Drain Improvements	Phoenix	77
10. 3 rd Avenue and Dobbins Storm Drain Improvements	Phoenix	67
11. 35 th Avenue Storm Drain from Dobbins Road to Baseline Road	Phoenix	68
12. 1 st Street Storm Drain from Lincoln To Buchanan	Phoenix	59
13. Calle Redonda Flood Mitigation	Phoenix	74
14. Indian School Road and Granite Reef Road Drainage Improvements	Scottsdale	38
15. 8525 East Pinnacle Peak Road Drainage Improvements	Scottsdale	42
16. Paradise Drive Storm Drain from 67 th Street to 68 th Street	Scottsdale	52
17. East 3 rd Avenue and N. Craftsman Court Drainage Improvements	Scottsdale	52
18. Jerry Street and Rimrock Road Drainage Improvements	Surprise	54
19. Tara Lane and Christine Lane Drainage Improvements	Surprise	18
20. Tierra Buena and 151 st Avenue Drainage Improvements	Surprise	37
21. Hassayampa Elementary School Drainage Improvements	Wickenburg	69

Shepard Estates Drainage Improvements

City of Buckeye

No.1



- Proposed Channel
- 10 ft Contour
- Proposed Detention Basin

Aerial Photography - Fall 2013

1 inch = 170 feet



Project Evaluation Category	Response
Smallest storm event having caused residential or commercial flooding	None
Number of residential or commercial structures having historically flooded	0
Number of events having caused residential or commercial flooding	0
Smallest storm event having caused roadway or access closures	2-year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	1
Total project cost	\$150,000
District cost share	\$112,500
Score: 30	

NOT APPROVED

Coldwater Blvd. Channel from Tucana Ln. to Claiborne Ave. No.2 Town of Gilbert



- Proposed Channel — 10 ft Contour
- Proposed Box Culvert Flooded Property

Aerial Photography - Fall 2013

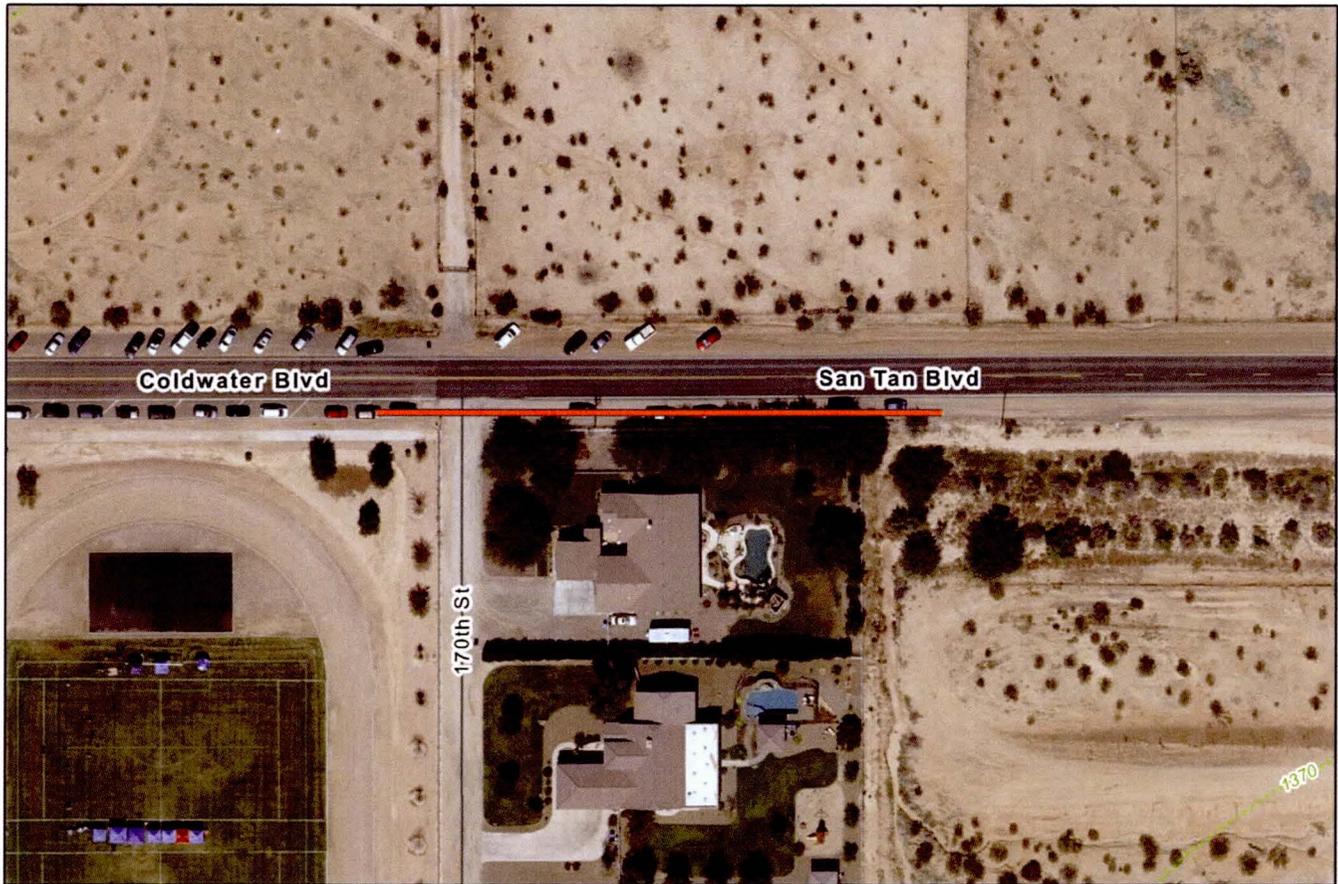
1 inch = 180 feet



Project Evaluation Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	4
Smallest storm event having caused roadway or access closures	2-year
Municipal commitment to completing design	Yes
Percent design complete to date	30%
Rights-of-way in place	No
Project priority to agency	1
Total project cost	\$60,000
District cost share	\$45,000
Score: 62	

APPROVED

170th Street and San Tan Boulevard Drainage Improvements No.3 Town of Gilbert



— Proposed Storm Drain and Headwalls - - - - 10 ft Contour

Aerial Photography - Fall 2013

1 inch = 100 feet



Project Evaluation Category	Response
Smallest storm event having caused residential or commercial flooding	None
Number of residential or commercial structures having historically flooded	0
Number of events having caused residential or commercial flooding	0
Smallest storm event having caused roadway or access closures	10-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	No
Project priority to agency	2
Total project cost	\$40,000
District cost share	\$30,000
Score: 8	

NOT APPROVED

2nd Avenue and Solomon Drainage Improvements

City of Mesa

No.4



- Proposed Storm Drain
- Existing Storm Drain
- Flooded Property
- Proposed Basin
- 10 ft Contour

Aerial Photography - Fall 2013

1 inch = 550 feet



Project Evaluation Category	Response
Smallest storm event having caused residential or commercial flooding	10-Year
Number of residential or commercial structures having historically flooded	59
Number of events having caused residential or commercial flooding	2
Smallest storm event having caused roadway or access closures	10-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	1
Total project cost	\$1,415,280
District cost share	\$250,000
Score: 62	

APPROVED



-  Proposed Manhole
-  Existing Storm Drain
-  Proposed Storm Drain
-  10 ft Contour
-  Proposed Basin
-  Flooded Property

Aerial Photography - Fall 2013

1 inch = 550 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	≥50-Year
Number of residential or commercial structures having historically flooded	130
Number of events having caused residential or commercial flooding	1
Smallest storm event having caused roadway or access closures	10-year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	2
Total project cost	\$390,430
District cost share	\$250,000
Score: 49	

APPROVED



-  Proposed Manhole
 -  10 ft Contour
 -  Proposed Storm Drain
 -  Flooded Property
 -  Existing Storm Drain
- Aerial Photography - Fall 2013

1 inch = 550 feet 

Category	Response
Smallest storm event having caused residential or commercial flooding	10-Year
Number of residential or commercial structures having historically flooded	4
Number of events having caused residential or commercial flooding	5
Smallest storm event having caused roadway or access closures	10-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	3
Total project cost	\$144,700
District cost share	\$108,525
Score: 58	

APPROVED

9th Avenue and Horne Detention Basin

City of Mesa

No.7



- Proposed Basin
- 10 ft Contour
- Existing Storm Drain
- Flooded Property

Aerial Photography - Fall 2013

1 inch = 800 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	5-Year
Number of residential or commercial structures having historically flooded	51
Number of events having caused residential or commercial flooding	6
Smallest storm event having caused roadway or access closures	5-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	No
Project priority to agency	4
Total project cost	\$485,160
District cost share	\$250,000
Score: 61	

APPROVED

10th Avenue and Sistine Drainage Improvements

City of Mesa

No.8



- Proposed Storm Drain
- Existing Storm Drain
- Flooded Property

Aerial Photography - Fall 2013

1 inch = 200 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	5-Year
Number of residential or commercial structures having historically flooded	5
Number of events having caused residential or commercial flooding	6
Smallest storm event having caused roadway or access closures	10-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	5
Total project cost	\$96,400
District cost share	\$72,300
Score: 66	

APPROVED

16th Street and Violet Drive Storm Drain Improvements

City of Phoenix

No.9



- Proposed Storm Drain and Catch Basins
- Existing Storm Drain
- Flooded Property

Aerial Photography - Fall 2013

1 inch = 150 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	3
Number of events having caused residential or commercial flooding	5
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	1
Total project cost	\$500,000
District cost share	\$250,000
Score: 77	

APPROVED

3rd Ave. Storm Drain - Dobbins Rd. to South Mountain Ave. No.10 City of Phoenix



- Proposed Storm Drain and Catch Basins
- Existing Storm Drain
- - - - - 10 ft Contour
- Flooded Property
- Floodplain

Aerial Photography - Fall 2013

1 inch = 600 feet

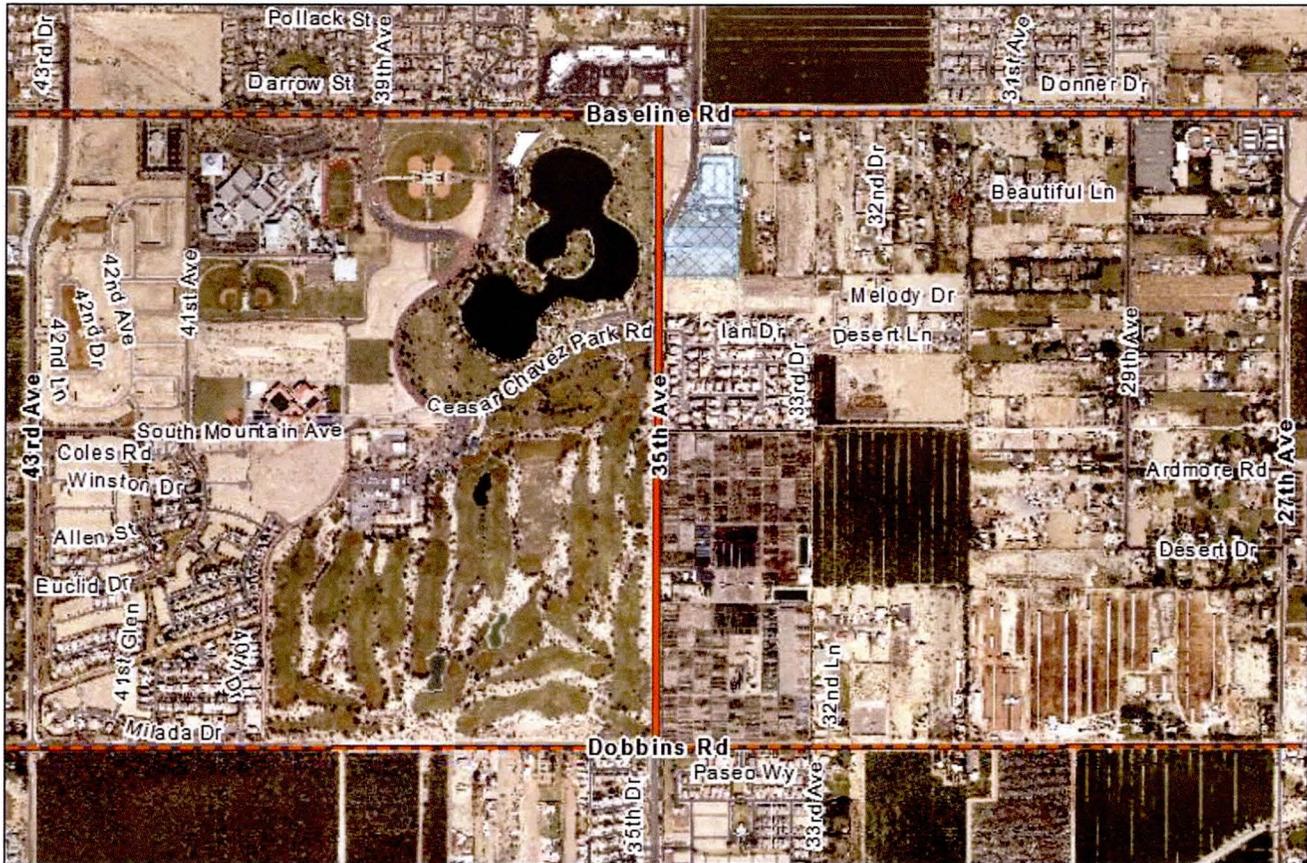


Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	6
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	2
Total project cost	\$400,000
District cost share	\$250,000
Score: 67	

APPROVED

35th Ave. Storm Drain - Dobbins Rd. to Baseline Rd. City of Phoenix

No.11



- Proposed Storm Drain and Catch Basins
- Existing Storm Drain
- Flooded Property

Aerial Photography - Fall 2013

1 inch = 1,316 feet



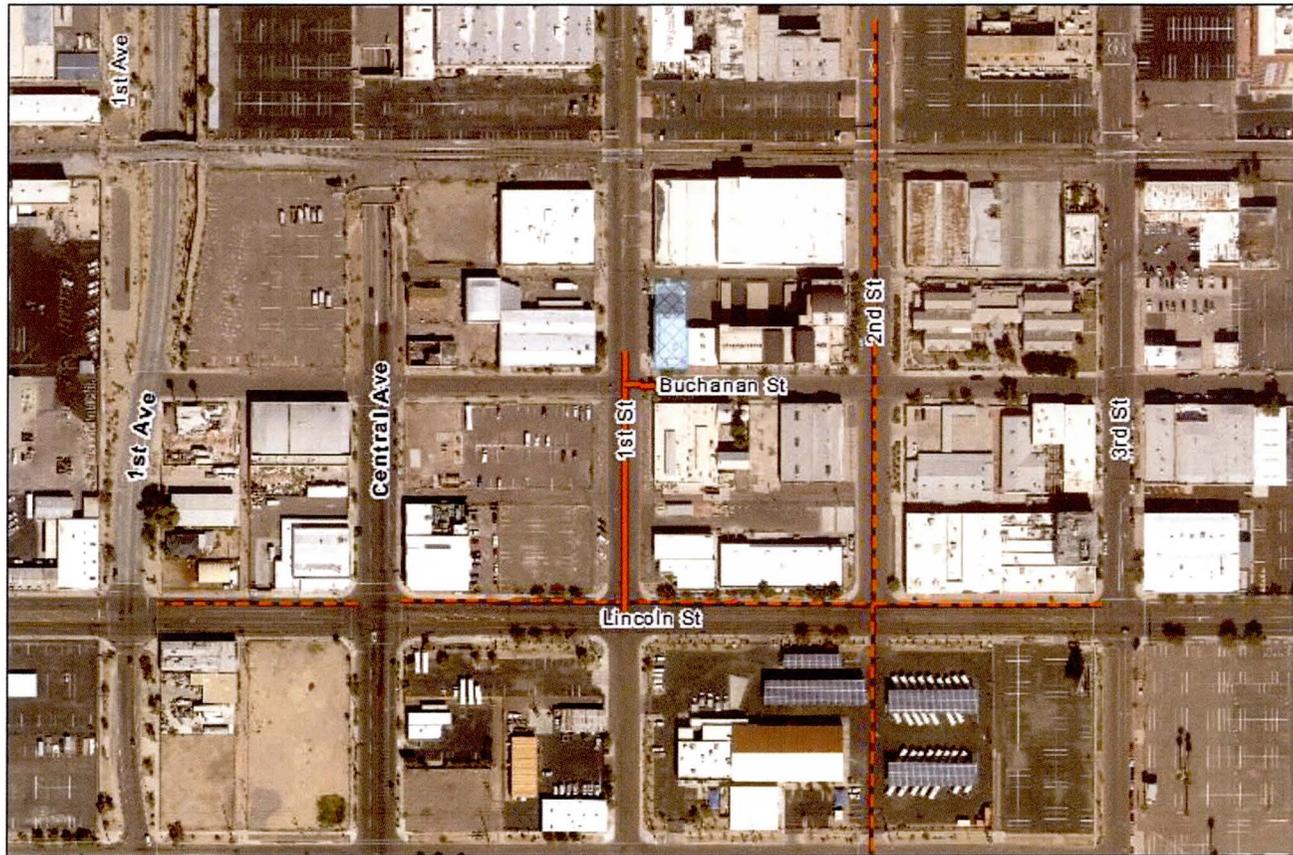
Category	Response
Smallest storm event having caused residential or commercial flooding	5-Year
Number of residential or commercial structures having historically flooded	3
Number of events having caused residential or commercial flooding	3
Smallest storm event having caused roadway or access closures	5-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	3
Total project cost	\$700,000
District cost share	\$250,000
Score: 63	

APPROVED

1st Street Storm Drain - Lincoln Street & Buchanan Street

City of Phoenix

No.12



- - - Proposed Storm Drain and Catch Basins
- - - Flooded Property
- Existing Storm Drain

Aerial Photography - Fall 2013

1 inch = 248 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	6
Smallest storm event having caused roadway or access closures	5-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	4
Total project cost	\$450,000
District cost share	\$250,000
Score: 59	

APPROVED



— Proposed Storm Drain and Catch Basins Flooded Property



Aerial Photography - Fall 2013

1 inch = 86 feet

Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	3
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	60%
Rights-of-way in place	Yes
Project priority to agency	5
Total project cost	\$450,000
District cost share	\$250,000
Score: 74	

APPROVED

Indian School Rd. & Granite Reef Rd. Drainage Improvements No.14 City of Scottsdale



- Proposed Swale
- Flooded Property
- Proposed Detention Basin

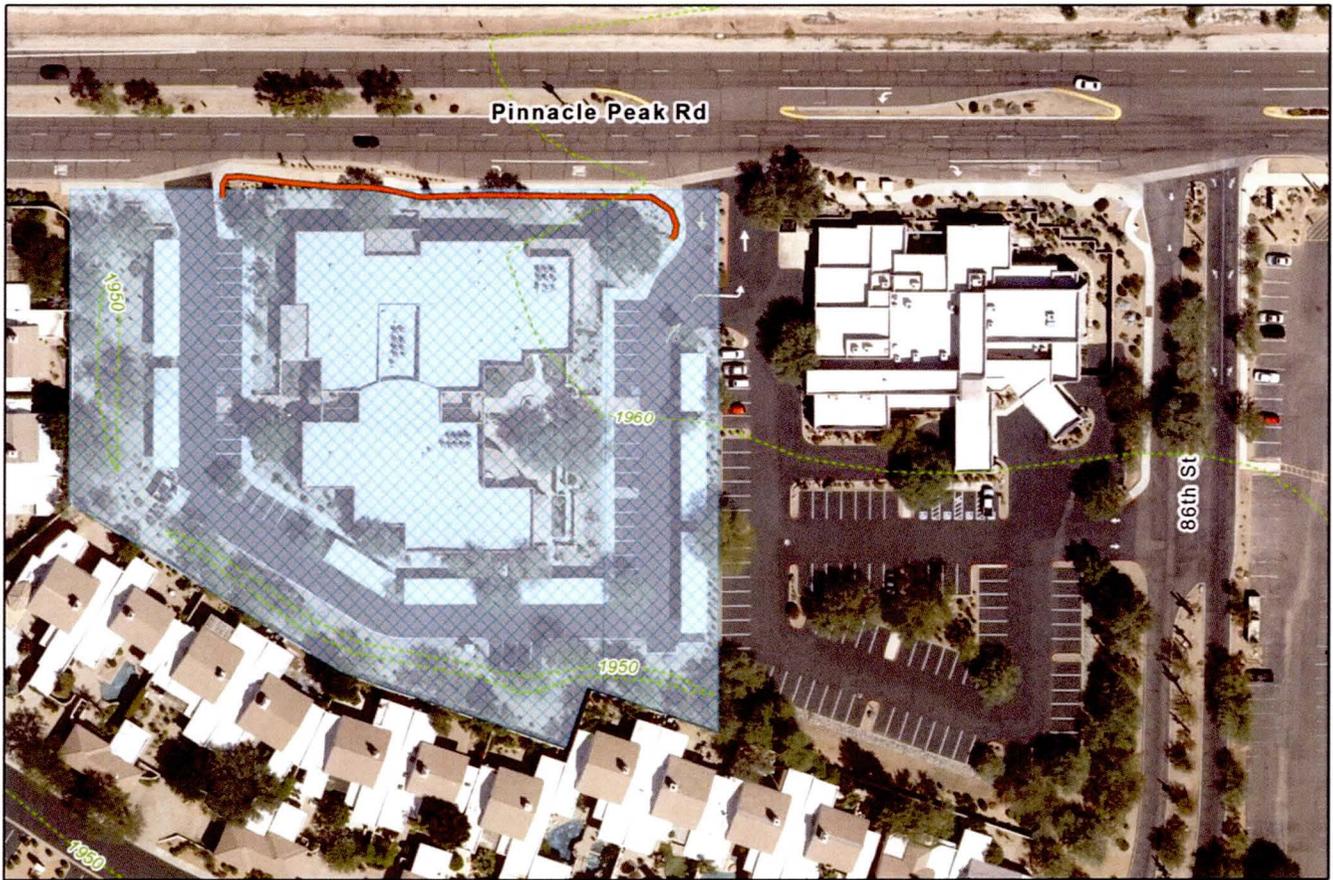
Aerial Photography - Fall 2013

1 inch = 100 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	0
Number of events having caused residential or commercial flooding	0
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	30%
Rights-of-way in place	Yes
Project priority to agency	1
Total project cost	\$74,000
District cost share	\$55,500
Score: 38	

NOT APPROVED



— Proposed Flood Wall - - - 10 ft Contour
 Flooded Property

Aerial Photography - Fall 2013

1 inch = 100 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	7
Smallest storm event having caused roadway or access closures	None
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	No
Project priority to agency	2
Total project cost	\$25,000
District cost share	\$18,750
Score: 42	

APPROVED

Paradise Drive Storm Drain from 67th to 68th Street
 City of Scottsdale

No.16



- Proposed Storm Drain and Catch Basins - - - 10 ft Contour
- Existing Storm Drain Flooded Property

Aerial Photography - Fall 2013

1 inch = 180 feet



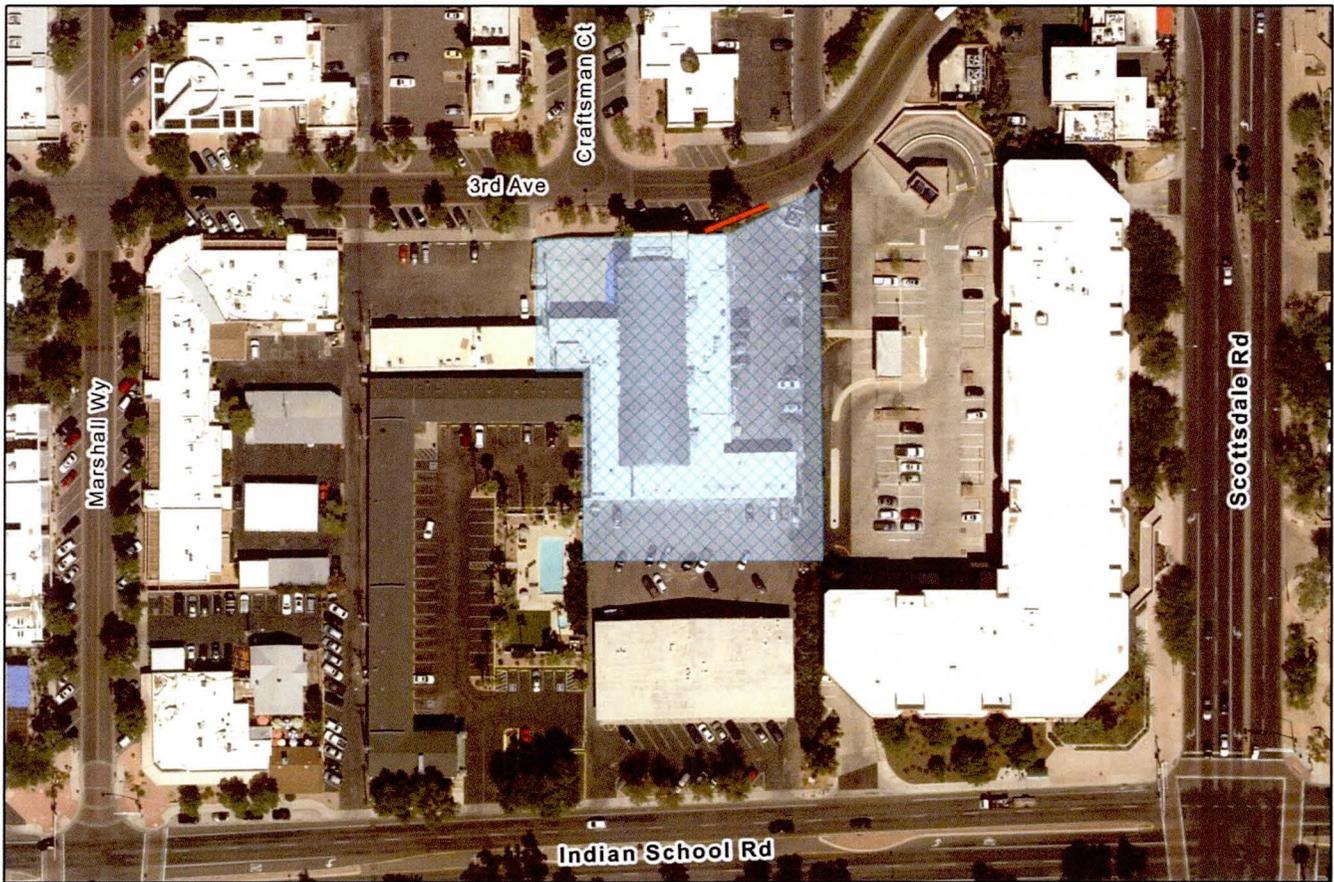
Category	Response
Smallest storm event having caused residential or commercial flooding	5-Year
Number of residential or commercial structures having historically flooded	2
Number of events having caused residential or commercial flooding	4
Smallest storm event having caused roadway or access closures	None
Municipal commitment to completing design	Yes
Percent design complete to date	30%
Rights-of-way in place	Yes
Project priority to agency	3
Total project cost	\$243,000
District cost share	\$182,250
Score: 52	

APPROVED

E. 3rd Ave. and N. Craftsman Ct. Drainage Improvements

City of Scottsdale

No.17



— Proposed Channel

▨ Flooded Property

Aerial Photography - Fall 2013

1 inch = 120 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	4
Smallest storm event having caused roadway or access closures	None
Municipal commitment to completing design	Yes
Percent design complete to date	30%
Rights-of-way in place	Yes
Project priority to agency	4
Total project cost	\$30,000
District cost share	\$22,500
Score: 52	

APPROVED



- Proposed Detention Basin and Dry Well
- 10 ft Contour
- Flooded Property

Aerial Photography - Fall 2013

1 inch = 100 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	2
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	No
Project priority to agency	1
Total project cost	\$450,000
District cost share	\$250,000
Score: 54	

APPROVED



- Proposed Storm Drain - - - 10 ft Contour
- Proposed Dry Well Flooded Property

Aerial Photography - Fall 2013

1 inch = 120 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	≥50-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	1
Smallest storm event having caused roadway or access closures	None
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	No
Project priority to agency	2
Total project cost	\$30,000
District cost share	\$22,500
Score: 18	

NOT APPROVED

Tierra Buena and 151st Avenue Drainage Improvements

City of Surprise

No.20



— Proposed Curb and Gutter

▭ Proposed Detention Basin

Aerial Photography - Fall 2013

1 inch = 150 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	None
Number of residential or commercial structures having historically flooded	0
Number of events having caused residential or commercial flooding	0
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	90%
Rights-of-way in place	Yes
Project priority to agency	3
Total project cost	\$30,000
District cost share	\$22,500
Score: 37	

NOT APPROVED



- Proposed Storm Drain and Catch Basins
- Existing Storm Drain
- Flooded Property

Aerial Photography - Fall 2013

1 inch = 306 feet



Category	Response
Smallest storm event having caused residential or commercial flooding	2-Year
Number of residential or commercial structures having historically flooded	1
Number of events having caused residential or commercial flooding	6
Smallest storm event having caused roadway or access closures	2-Year
Municipal commitment to completing design	Yes
Percent design complete to date	0%
Rights-of-way in place	Yes
Project priority to agency	1
Total project cost	\$242,500
District cost share	\$181,875
Score: 69	

APPROVED