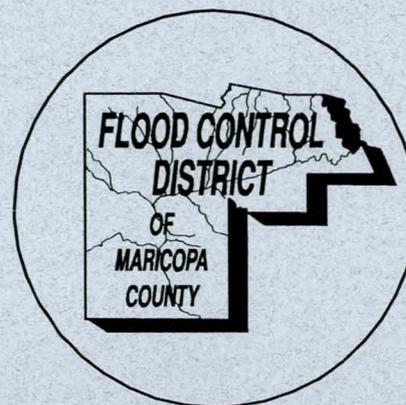


***FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM***

***FOR***

***FISCAL YEARS 1995 TO 1999***

**Adopted September 19, 1994**



Printed October 25, 1994

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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*John T. Katsenes, District 2*

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S.L. Smith, Jr., P.E., Deputy Chief Engineer/Manager, Planning & Project Management Division

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D.W. Meinhart, AICP, Flood Control Planner  
O.D. Park, P.E., Manager, Construction & Operations Division  
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Prepared by: A.J. Blech, AICP  
D.W. Meinhart, AICP  
Planning & Project Management

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
AGENDA FORM

**FILE**

Contract/Lease for  NEW  RENEWAL  AMENDMENT  CANCELLATION  
LOW ORG. NO. 6900 DEPARTMENT: Flood Control District  
ENCUMBRANCE NO. \_\_\_\_\_ AGENCY: \_\_\_\_\_

CONTROL NUMBER: FCD- 1603  
CONTROL NUMBER: PW-303

**BRIEF DESCRIPTION OF PROPOSAL AND REQUESTED BOARD ACTION:** It is requested that the Board of Directors approve the Flood Control District's FY 94/95-98/99 5-Year Capital Improvements Program, which is based upon the following flood control tax rates: FY 94/95 - \$0.3632; FY 95/96 - \$0.3632; FY 96/97 - \$0.45; FY 97/98 - \$0.45; and, FY 98/99 - \$0.45. The proposed FY 95/96-98/99 5-Year CIP (copy attached) includes projected expenditures of \$132,922,000, exclusive of force account and indirect charges. This reflects a decrease of 18% (\$28.7 million) from the FY 93/94-97/98 CIP approved by the Board of Directors in August 1993.

On July 27, 1994 the Flood Control Advisory Board approved and recommended that the Board of Directors adopt a Flood Control District 5-Year CIP based on a tax rate of \$0.3632 for the first two years and a rate of \$0.45 for the last three years. The selected option which is one of four options analyzed by District staff (copy enclosed), is predicated on the Advisory Board's interest in balancing the near-term budgetary constraints of the County with the long-term interests and needs of the District's customer communities. The communities' needs for the District's unique services were expressed during the FY 94/95 CIP Project Prioritization Procedure, when existing and new project requests totalling \$260 million were reviewed.

Compliance with Maricopa County Procurement Code

N/A article N/A paragraph

*David A. Gonzalez*  
Procurement Officer

SOLE SOURCE JUSTIFICATION: 0.3632 # 0.3632 \$ 0.3632

3. CONTINUED FROM MEETING OF DISCUSSED IN MEETING OF \_\_\_\_\_

4.  THIS DEPARTMENT WILL CAUSE PUBLICATION  
 CLERK OF THE BOARD TO CAUSE PUBLICATION

5. MOTION: It is moved that the Flood Control District of Maricopa County Board of Directors ...approve the Flood Control District's FY 94/95-98/99 5-Year Capital Improvements Program, which is based upon the following flood control tax rates: FY 94/95 - \$0.3632; FY 95/96 - \$0.3632; FY 96/97 - ~~\$0.45~~; FY 97/98 - ~~\$0.45~~; and FY 98/99 - ~~\$0.45~~. The proposed 5-Year CIP includes projected expenditures of \$131,922,000 exclusive of force account and indirect charges, with \$16,972,000 of this total to be paid through reimbursements from cost-share partners.

6. FINANCIAL:  Expenditure  Revenue  Budgeted  Contingency  Budgeted Amendment  Transfer  Grant or Other

4750,000.00 FY 94/95 411 FUND FCD

FINANCIAL OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

7. PERSONNEL:

PERSONNEL DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

8. FLOOD CONTROL DISTRICT:

*Debra...* 8-16-94  
ACTION RECOMMENDED BY \_\_\_\_\_ DATE \_\_\_\_\_

9. MATERIALS MANAGEMENT:

A. MATERIALS MGMT. DIR. \_\_\_\_\_ DATE \_\_\_\_\_

B. WMBE REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

10. LEGAL: Approved as to form and within the powers and authority granted under the laws of the State of Arizona to the Flood Control District of Maricopa County Board of Directors.

*Carole...* 8/17/94  
General Counsel \_\_\_\_\_ DATE \_\_\_\_\_

11. OTHER: \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

12. APPROVED FOR AGENDA:  
*Kevin A. Schmidt* 8-24-94  
APPROVING OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_

13. OTHER: \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

15. RECOMMENDATION OF COUNTY MANAGER:

Approve  Disapprove

Comments:

14. BOARD OF DIRECTORS: Action taken:  
 Approved  Amended  Disapproved  Deleted  
Continued to \_\_\_\_\_

(Date and type of meeting)  
*Mark...* 9/9/94  
CLERK OF THE BOARD \_\_\_\_\_ DATE \_\_\_\_\_

*Barbara Cooper*  
COUNTY MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

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\* Denotes FCD Project # in Appendices A & B

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White Tanks #3 Inlet Improvements .....	A-5, B-31
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Wickenburg Area Drainage Master Plan .....	A-2, A-4, B-17
Casandro Wash Dam and Outlet .....	A-4, B-17

## INTRODUCTION

The Flood Control District (District) is organized pursuant to ARS § 48-3601, et seq. The District's functional purpose is to prevent loss of life or injury to residents and to eliminate or minimize damages to real and personal property from flooding within the geographical limits of Maricopa County. The Capital Improvement Program (CIP) serves as the cornerstone of the District's efforts to resolve flooding problems in Maricopa County. This booklet provides information on the anticipated expenditures for flood control projects and programs for the next five years, from July 1994 through June 1999.

### **The Capital Improvement Program**

The District maintains a 5-Year Capital Improvement Program (CIP) as called for in state statute and as directed by the District's *General Policies Concerning the Allocation of Fiscal Resources to Accomplish the District's Functions and Responsibilities*, adopted in 1988 by the Board of Directors and amended in 1993. The 5-Year CIP includes all costs associated with the implementation of projects or elements of projects that have been proposed by federal, state, District or local programs and have been reviewed through the *Procedure for Identifying and Prioritizing Potential 5-Year CIP Projects*, or a similar method approved by the Board of Directors. After budgeting the funds necessary for maintenance and other mandatory programs, the District budgets the remainder of its tax revenues, on an annual basis, for capital improvement projects and related programs. Multipurpose uses of flood control projects are encouraged to the extent that the other uses do not interfere with the operation of the flood control facility and do not significantly increase the maintenance requirements of the facility.

By definition, a Capital Improvement Program is a proposed timetable or schedule of future capital improvement projects to be carried out during a specific period and listed in order of priority, together with cost estimates and the anticipated means of financing each project. The District's CIP is a five- or six-year program with the first year being the Capital Improvements Budget. A capital improvement project is a governmental acquisition of real property and/or a major construction project.

### **Planning Process**

According to statute and the District's General Policies, each five years the District is to conduct a survey and prepare a report describing the remaining flooding problems and the existing flood control facilities in Maricopa County. In the conduct of the survey, the District solicits comments from and consults with the County's incorporated communities and other County, State and Federal agencies. Following the preparation and approval of the survey report, a *Comprehensive Plan for Flood Hazard Mitigation* is to be prepared. The plan includes a tentative priority, time schedule, and estimated cost for implementation of the various projects or project elements required to mitigate the County's flooding problems.

Information on flooding and flood-prone areas is also generated through the Area Drainage Master Study (ADMS) Program. The ADMS program was conceived in 1983 in order for the District to provide a proactive, leadership role in developing uniform, comprehensive inventories and models of the natural and man-made features that influence rainfall-runoff in identified study areas. There are approximately 23 ADMS areas ranging from 15 to 250 square miles. Seven of the studies have been completed and six are currently underway. Area Drainage Master Plans

(ADMPs) are derived for each of the ADMS areas. These plans identify the results of the studies and recommend solutions for flooding problems. Requests from cities, towns and other agencies, along with ADMPs, are intended to be major sources of flood control projects for the CIP.

Other projects in the CIP are those that have been identified by the federal agencies that have prepared studies within the County. Many of these are included in the District's *Comprehensive Flood Control Program Report* (1991). The 1991 report updates the status of the 40 original project concepts contained in the District's first Comprehensive Report (1963), identifies projects being undertaken by other governmental agencies in cooperation with the District, and reviews the Area Drainage Master Study (ADMS) Program.

**Prioritization Procedure**

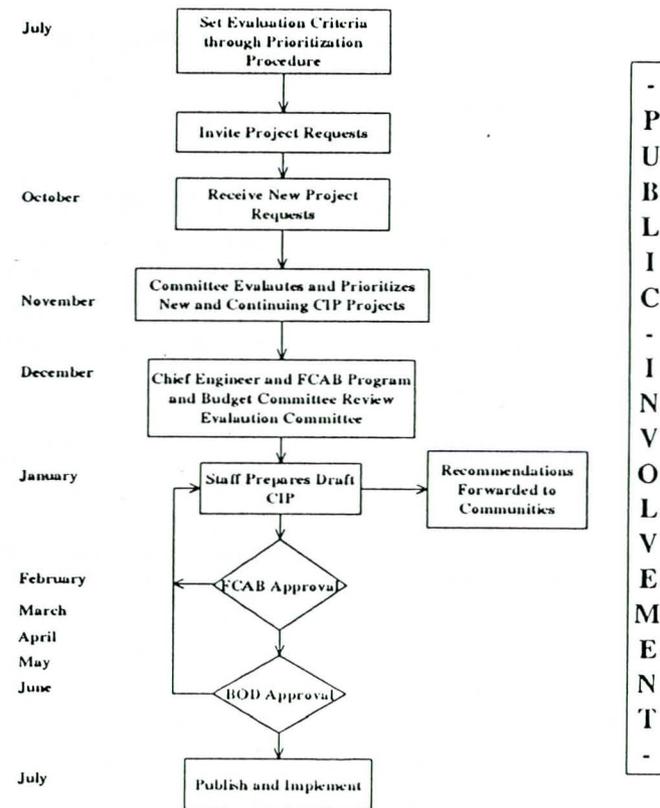
The prioritization procedure was implemented for the FY 94-95 budget development cycle and is the mechanism for implementing portions of the District's Strategic Plan in a manner that is consistent with approved fiscal policies. Potential CIP projects are identified either by the cities, towns and other agencies or through other District programs and evaluated on an annual basis for inclusion in the latter years of the 5-Year CIP.

The primary benefits of the procedure to date have been its ability to: 1) reduce uncertainty by applying District-approved and community-reviewed criteria during the project review process; 2) improve fiscal efficiency by requiring concurrent review of all project proposals and timing this review with the District's budget cycle; 3) eliminate duplication and improve community commitment by focusing planning efforts on projects approved for

pre-design/feasibility analysis; and, 4) provide a means for reconstructing or reprioritizing our budget and 5-Year CIP with a minimum of disruption to ongoing activities by developing a rank ordering system.

There are two steps in the prioritization procedure (see Figure 1). First, all newly proposed projects are evaluated according to given, weighted criteria by a committee made up of District staff members.

Figure 1 - FCD 5-Year CIP Process



- P U B L I C - I N V O L V E M E N T -

The selected projects are included in a District-funded and prioritized pre-design study program. If desired, requesting agencies may complete prioritized pre-design studies with their own staff and funds, as long as the information provided meets the minimum requirements addressed through District-sponsored studies. The primary aim of the pre-design study program is to develop more detailed information on potential CIP projects in the areas of design and construction costs, land acquisition requirements, permit and mitigation implications, operations and maintenance requirements, and project scheduling. It is also important that a consistent, minimum level of information is provided, so that decisions on CIP priority can be fairly determined.

The second step includes the evaluation and prioritization of projects for inclusion in the District's 5-Year CIP program. For projects requiring an Intergovernmental Agreement, the information developed in the pre-design study will serve as the basis for negotiations. As Area Drainage Master Plans are completed, it is envisioned that a significant number of future pre-design studies and CIP project requests will originate through the ADMP program. Annual input regarding the priorities for projects contained within these plans, as well as other potential projects, will continue to be sought through the cities, towns and other agencies and prioritized on a county-wide basis.

During the development of the Prioritization Procedure, the District invited its client communities to help define the appropriate criteria for project review and assign an appropriate weighting to each criterion. Table 1 shows the criteria and weights used in identifying project priorities.

**Table 1**  
**Prioritization Criteria**

<b>Criterion</b>	<b>Points</b>
<i>Developed Area Protected</i>	20
<i>Hydrologic/Hydraulic Significance</i>	10
<i>Total Area Protected</i>	8
<i>Master Plan Element</i>	6
<i>Level of Protection</i>	10
<i>Environmental/Areawide Benefits:</i>	
Water Quality	6
Wildlife Habitat	6
Groundwater	4
Recreation	4
<i>Total Project Cost</i>	6
<i>O&amp;M Costs</i>	5
<i>Local Priority</i>	5
<i>Local Participation</i>	10
<b>TOTAL</b>	<b>100</b>

Table 2 provides a list of new and ongoing projects that were ranked for future CIP consideration by the District's Project Evaluation Committee and approved by the Flood Control Advisory Board during the FY 94-95 project evaluation and prioritization process. A status report on each of these projects is provided in Appendix C. Projects with construction activity

underway were not numerically ranked by the Project Evaluation Committee and are not included in Appendix D.

**Table 2**  
**FY 94-95 Future CIP Project Ranking**

Project Name	City	Score
Beardsley Rd. RDS - Phase I	Phoenix	78
Reata Pass Channel - Phase I	Scottsdale	78
Dysart Drain	Glendale/U.C.	77
Rawhide Wash Channel - Phase I	Scottsdale	75
Bullard Wash Overchute	Goodyear	74
Casandro Wash Dam	Wickenburg	73
Pima Road Channel	Scottsdale	72
SE Valley Regional Drainage System	Chandler	70
Maricopa Drain (43rd Ave./Burgess Ln.)	Phoenix/U.C.	70
10th St. Wash Basin & Channel	Phoenix	69
Reata Pass Channel - Phase II	Scottsdale	69
Grovers Ave. Lateral	Phoenix	66
Utopia Rd. Lateral	Phoenix	66
RID Canal Overchute	Litchfield Park	66
Rittenhouse Drainage Improvements	Queen Creek	66
84th St./Cholla Basin & Storm Drain	Scottsdale	66
Campobello Dr. Lateral	Phoenix	65
Rosemont Lateral	Phoenix	65
91st Ave./Union Hills Basin/Channel/Drain	Peoria	65
Rawhide Wash Channel - Phase II	Scottsdale	65
Salt River Channel (McClintock-Price)	Tempe	65

**Table 2 (cont'd)**  
**FY 94-95 Future CIP Project Ranking**

Project Name	City	Score
Maryvale Flooding Mitigation	Phoenix	64
Northern/Orangewood Storm Drain	Glendale/Peoria	63
48th St./Chandler Blvd. Channel	Phoenix	63
Holly Acres (91st Ave.-Dysart Rd.)	FCD/U.C.	63
Sossaman Channel & Basin	Mesa/U.C.	60
Skunk Creek Improvements	Peo./Glen./Phx.	60
Arcadia Area Drainage Project	Phoenix	59
Desert Harbor Drop Structure	Peoria	59
Cave Creek Basin & Channel	Phoenix	59
Town of Guadalupe	Guadalupe	59
Cactus Rd. Drain	Glendale/Peoria	58
Tatum Wash Basin & Channel	Phoenix	56
Old Cross Cut Canal	Phoenix	54
Apache Trail at CAP	FCD/U.C.	53
Doubletree Ranch Road Improvements	P. Valley	53
Camelback Ranch Channelization	Phoenix	53
Ellsworth/Germann Collector Channel	Mesa	51
White Tanks #4 Improvements	Buckeye/U.C.	50
White Tanks #3 Improvements	FCD/U.C.	41

Once a CIP project has progressed to the stage where engineering design, plans and construction specifications are being prepared, its

place in the 5-Year CIP program is generally maintained. The stability and timeliness of CIP project implementation is important to the District's customer communities.

**Funding Resources**

The vast majority of the District's Operating and CIP revenues come from the flood control tax that is levied county-wide. The District levy, currently at \$0.3632/\$100 assessed value, generates approximately \$1 million/\$0.01. Relatively small revenue sources result from the sale or lease of District rights-of-way and reimbursements from project cost-share partners.

Table 3 and Figure 2 provide a summary of historic tax rates for the period from 7/84 through 6/94. From 7/88 through 6/94, a period of 6 years, the District's annual revenue from the real estate tax has decreased by more than 30 percent.

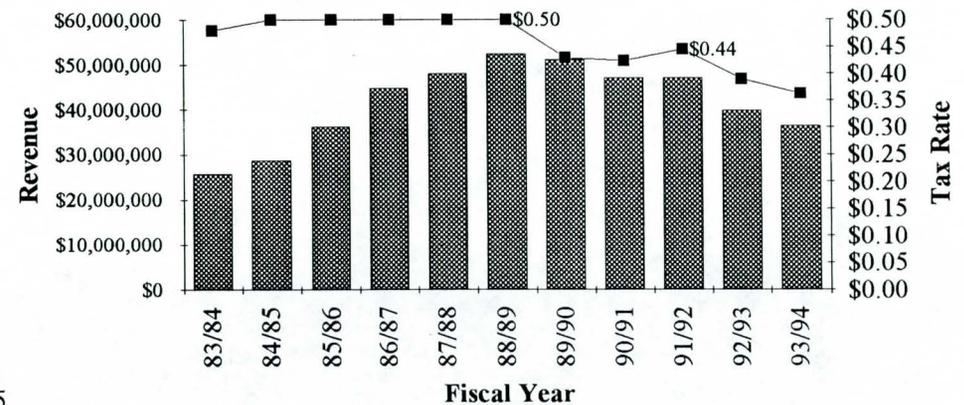
**FY 94-95 to FY 98-99 Capital Improvement Program:  
Appendices**

Included in Appendix A is a listing of the projects which the Flood Control District of Maricopa County proposes to complete over the next five years (FY 94-95 through FY 98-99). The project listing also contains estimated expenditures. Appendix B provides descriptions of the District's 5-Year CIP projects. Appendix C provides a summary map of major CIP projects. Appendix D provides a status report on each of the projects recommended for CIP consideration through the FY 94-95 Prioritization Procedure.

**Table 3**  
**Tax Rates by Fiscal Year**

Year	Rate	Revenue
93/94	\$0.3632	\$36,326,000
92/93	\$0.3901	\$39,722,000
91/92	\$0.4447	\$47,040,000
90/91	\$0.4235	\$47,040,000
89/90	\$0.4303	\$51,155,000
88/89	\$0.5000	\$52,500,000
87/88	\$0.5000	\$48,000,000
86/87	\$0.5000	\$44,850,000
85/86	\$0.5000	\$36,170,000
84/85	\$0.5000	\$28,697,000
83/84	\$0.4800	\$25,780,000

**Figure 2 - Tax Revenue by Fiscal Year**



## **Appendix A: CIP Budget and Schedule**

**THE CIP ESTIMATED EXPENDITURES**

The following tables include estimated expenditures for all projects proposed for the District's Five-Year Capital Improvement Program for fiscal years 94/95 through 98/99.

The table is divided into two parts. The first is a summary of all of the project activity code expenditures. Many activity codes represent a cluster of projects in a given region. For example, the White Tanks activity code includes seven projects that originated in the White Tanks Area Drainage Master Plan.

The second part of the CIP expenditure table is a detailed listing of each project, listed by activity code. The figures in the table are divided by \$1,000, for easy display, and shown according to fiscal year for the entire five years. A "Total" column sums all of the expenditures, by project, proposed during the five-year period.

It is important to note that although most of the projects are scheduled to be completed in five years, those identified with an asterisk (\*) will be continued beyond the five year period, due to availability of funding, status of design or construction plans, or due to schedules of other related activities. Also included in the CIP table is a column showing supervisor districts for the project.

Funding available for the CIP is based on estimates which combine anticipated revenues from numerous sources with the District's anticipated flood control tax rate, per \$100 assessed property value. These estimates are as follows:

**ESTIMATED 5-YEAR CIP FUNDING \***

<u>FY</u>	<u>Tax Rate</u>	<u>Amount (x \$1,000)</u>
94/95	.3632	\$ 33,284
95/96	.3632	21,749
96/97	.3632	25,415
97/98	.3632	20,283
98/99	.3632	<u>20,983</u>
<b>TOTAL</b>		<b>\$121,714</b>

\* Includes all funding sources

Most of the project costs include design, utility relocations, construction, land acquisition, personnel costs and indirect services chargeable to the project. Further, many are accomplished with funding participation from other governmental entities. This participation often includes a monetary reimbursement of a portion of the expenditures incurred by the District. Therefore, following the expenditure listings on the table, there is a listing of projected reimbursements, according to project.

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE				X \$1,000					
19 Oct 94									
City	Dist.	ACT #	DESCRIPTION	FY 94/95	FY 95/96	FY 96/97	FY 97/98	FY 98/99	TOTAL
				0.3632	0.3632	0.3632	0.3632	0.3632	
Phoenix	5	P6A001	FCD BUILDING	148	0	10	0	0	158
Multiple	1,2,4	P6A002	STORMWATER MONITORING SYSTEM	335	0	0	0	0	335
Multiple	all	P6A003	BEST MANAGEMENT PRACTICES	54	46	10	26	16	152 *
Multiple	all	P6A017	FLOOD WARNING SYSTEM	0	0	0	100	0	100 *
Scottsdale	2	P6A027	CITY OF SCOTTSDALE	350	0	400	0	0	750
Guadalupe	5	P6A035	TOWN OF GUADALUPE	98	0	0	0	0	98 *
Phoenix	1,2,3,5	P6A103	OLD CROSS CUT CANAL	1,007	2,235	5,780	4,163	5,000	18,185 *
Multiple	4,5	P6A106	SALT GILA CONTROL WORKS	205	450	0	0	800	1,455
Mesa	2	P6A108	SOSSAMAN CHANNEL	937	0	0	0	0	937 *
Mesa	1	P6A115	PRICE DRAIN	0	0	1,761	0	0	1,761 *
County	1,5	P6A117	LAVEEN ADMP (MARICOPA DRAIN)	456	300	0	0	0	756 *
Phoenix	2,3	P6A118	ACDC	5	0	0	0	0	5
Scottsdale	2	P6A120	PVSP - CACTUS RD NEIGHBORHOOD	130	0	0	0	0	130
Tempe	1,5	P6A125	SALT RIVER CHANNEL	5,259	6,000	0	0	0	11,259
Surprise	4	P6A204	McMICKEN DAM	45	0	0	0	0	45
Mesa	2	P6A301	94TH ST UTILITY SERVICES	33	0	0	0	0	33
Pinal Co.	n/a	P6A305	BULLDOG FLOODWAY	75	0	0	0	0	75
Wickenburg	4	P6A343	WICKENBURG ADMP	1,300	800	0	0	340	2,440 *
Phoenix	3,4	P6A360	ADOBE DAM	99	0	0	0	0	99 *
Multiple	4	P6A362	SKUNK CREEK	189	285	0	0	500	974
Multiple	4	P6A400	SKUNK CREEK/NEW RIVER	2,315	0	0	0	0	2,315
Multiple	5	P6A401	AGUA FRIA - FLOWAGE EASEMENTS	105	0	0	0	0	105
Mesa	2	P6A441	UNIVERSITY DRIVE DRAINAGE IMP.	709	0	0	0	0	709
Multiple	4	P6A450	GLENDALE/PEORIA ADMP	1,722	2,200	3,300	3,100	1,000	11,322 *
Phoenix	3	P6A460	EAST FORK CAVE CREEK	3,116	975	1,310	0	0	5,401
Multiple	4,5	P6A470	WHITE TANKS ADMP	3,994	3,572	4,561	1,787	2,560	16,474 *
Multiple	1	P6A480	QUEEN CREEK ADMP	156	0	1,300	3,700	0	5,156 *
Chandler	1,5	P6A490	GILBERT/CHANDLER ADMP	0	0	1,250	1,950	3,600	6,800 *
Multiple	3	P6A580	ACDC ADMP	6,596	1,879	1,856	1,250	1,000	12,581 *
Phoenix	3	P6A600	CAVE CREEK IMPROVEMENT	0	0	0	0	160	160 *
Phoenix	4,5	P6A620	MARYVALE ADMP	75	0	0	200	0	275 *
Scottsdale	2	P6A680	UIBW ADMP	764	0	870	1,000	3,000	5,634 *
			INDIRECT CHARGES	904	904	904	904	904	4,520
			FORCE	2,103	2,103	2,103	2,103	2,103	10,515
			PROJECTS TOTAL	33,284	21,749	25,415	20,283	20,983	121,714
			SUBTOTAL REIMBURSEMENTS	-6,755	-1,766	-5,432	-1,300	-2,000	-17,253
			TOTAL (NET)	26,529	19,983	19,983	18,983	18,983	104,461

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE				X \$1,000					
19 Oct 94									
City	Dist.	ACT #	DESCRIPTION	FY 94/95	FY 95/96	FY 96/97	FY 97/98	FY 98/99	TOTAL
				0.3632	0.3632	0.3632	0.3632	0.3632	
Phoenix	5	P6A001	FCD BUILDING	148	0	10	0	0	158
Phoenix	5		FCD BUILDING - KCP 906	148	0	0	0	0	148
Phoenix	n/a		HATCHER REMODELING	0	0	10	0	0	10
Multiple	1,2,4	P6A002	STORMWATER MONITORING SYSTEM	335	0	0	0	0	335
Scottsdale	2		CITY OF SCOTTSDALE	170	0	0	0	0	170
Glendale	4		CITY OF GLENDALE	75	0	0	0	0	75
Tempe	1		STORM WATER STATIONS	90	0	0	0	0	90
Multiple	all	P6A003	BEST MANAGEMENT PRACTICES	54	46	10	26	16	152
Multiple	n/a		DUST CONTROL	25	20	10	20	16	91
Multiple	n/a		WETLANDS	0	0	0	0	0	0
Multiple	n/a		TREATMENT FACILITIES	10	10	0	6	0	26
Mesa	1		EMF WETLANDS	19	16	0	0	0	35
County	5		GILA RIVER WETLANDS	0	0	0	0	0	0
Multiple	all	P6A017	FLOOD WARNING SYSTEM	0	0	0	100	0	100
Scottsdale	2	P6A027	CITY OF SCOTTSDALE	350	0	400	0	0	750
Guadalupe	5	P6A035	TOWN OF GUADALUPE	98	0	0	0	0	98
Phoenix	1,2,3,5	P6A103	OLD CROSS CUT CANAL	1,007	2,235	5,780	4,163	5,000	18,185
Phoenix	1,2,3,5		MCDOWELL TO ARIZONA CANAL	807	2,130	5,780	4,163	5,000	17,880
Phoenix	2,3		ARCADIA AREA DRAINAGE	200	105	0	0	0	305
Multiple	4,5	P6A106	SALT GILA CONTROL WORKS	205	450	0	0	800	1,455
Multiple	4,5		SALT GILA CONTROL WKS - R/W ACQUISITION	55	0	0	0	0	55
Multiple	4,5		1000 FT CORRIDOR SURVEY	0	0	0	0	800	800
Multiple	4,5		MANAGEMENT POLICY STUDY	150	450	0	0	0	600
Mesa	2	P6A108	SOSSAMAN CHANNEL	937	0	0	0	0	937
Mesa	2		SOSSAMAN CHANNEL & BASIN	937	0	0	0	0	937
Mesa	1,2		SOSSAMAN US 60 TO GUADALUPE	0	0	0	0	0	0
Mesa	1	P6A115	PRICE DRAIN	0	0	1,761	0	0	1,761
County	1,5	P6A117	LAVEN ADMP (MARICOPA DRAIN)	456	300	0	0	0	756
Phoenix	2,3	P6A118	ACDC	5	0	0	0	0	5
Phoenix	2,3		ALL ACDC LAND	5	0	0	0	0	5
Scottsdale	2	P6A120	PVSP - CACTUS RD NEIGHBORHOOD	130	0	0	0	0	130
Tempe	1,5	P6A125	SALT RIVER CHANNEL	5,259	6,000	0	0	0	11,259
Tempe	1,5		MCCLINTOCK TO PRICE	5,000	6,000	0	0	0	11,000
Tempe	1,5		MILL TO MCCLINTOCK	259	0	0	0	0	259

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE				X \$1,000					
19 Oct 94									
City	Dist.	ACT #	DESCRIPTION	FY 94/95	FY 95/96	FY 96/97	FY 97/98	FY 98/99	TOTAL
				0.3632	0.3632	0.3632	0.3632	0.3632	
Surprise	4	P6A204	McMICKEN DAM	45	0	0	0	0	45
Surprise	4		McMICKEN DAM OUTLET CHANNEL	45	0	0	0	0	45
Mesa	2	P6A301	94TH ST UTILITY SERVICES	33	0	0	0	0	33
Pinal Co.	n/a	P6A305	BULLDOG FLOODWAY	75	0	0	0	0	75
Wickenburg	4	P6A343	WICKENBURG ADMP	1,300	800	0	0	340	2,440
Wickenburg	4		CASANDRO WASH DAM	1,285	800	0	0	0	2,085
Wickenburg	4		CASANDRO WASH OUTLET	15	0	0	0	340	355
Phoenix	3,4	P6A360	ADOBE DAM	99	0	0	0	0	99
Phoenix	3,4		ACCESS ROAD & PARKING LOT	99	0	0	0	0	99
Phoenix	3,4		BASIN	0	0	0	0	0	0
Multiple	4	P6A362	SKUNK CREEK	189	285	0	0	500	974
Multiple	4		ACDC TO ADOBE DAM	189	0	0	0	0	189
Glendale	4		BELL - 51ST - GLENDALE	0	200	0	0	500	700
Peoria	4		51ST - 48TH	0	85	0	0	0	85
Multiple	4	P6A400	SKUNK CREEK/NEW RIVER	2,315	0	0	0	0	2,315
Phoenix	4		LAND ACQUISITION	40	0	0	0	0	40
Peoria	4		DESERT HARBOR DROP STRUCTURE	2,025	0	0	0	0	2,025
Phoenix	4		CAMELBACK RANCH STUDY	250	0	0	0	0	250
Multiple	5	P6A401	AGUA FRIA - FLOWAGE EASEMENTS	105	0	0	0	0	105
Mesa	2	P6A441	UNIVERSITY DRIVE DRAINAGE IMP.	709	0	0	0	0	709
Multiple	4	P6A450	GLENDALE/PEORIA ADMP	1,722	2,200	3,300	3,100	1,000	11,322
Peoria	4		CACTUS ROAD STORM DRAIN	1,500	1,900	3,000	3,100		9,500
Multiple	4		NORTHERN / ORANGEWOOD STORM DRAIN	222	300	300	0	1,000	1,822
Peoria	4		91ST AVE / UNION HILLS IMPROVEMENTS	0	0	0	0	0	0
Phoenix	3	P6A460	EAST FORK CAVE CREEK	3,116	975	1,310	0	0	5,401
Phoenix	3		ROSEMONT DR LATERAL	896	504	0	0	0	1,400
Phoenix	3		UTOPIA RD LATERAL	920	134	0	0	0	1,054
Phoenix	3		GROVERS AVE LATERAL	44	0	1,310	0	0	1,354
Phoenix	3		CAMPOBELLO DR LATERAL	1,256	337	0	0	0	1,593

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE				X \$1,000					
19 Oct 94									
City	Dist.	ACT #	DESCRIPTION	FY 94/95	FY 95/96	FY 96/97	FY 97/98	FY 98/99	TOTAL
				0.3632	0.3632	0.3632	0.3632	0.3632	
Multiple	4,5	P6A470	WHITE TANKS ADMP	3,994	3,572	4,561	1,787	2,560	16,474
Glendale	4		COLTER CHANNEL (R01)	235	0	0	0	0	235
Glendale	4,5		DYSART DRAIN / REEMS RD. CONNECTOR	3,072	3,572	3,483	0	0	10,127
County	4		WHITE TANKS #4 INLET (R02)	195	0	0	0	1,500	1,695
County	4		WHITE TANKS #3 INLET (R05)	222	0	0	0	0	222
County	4		WHITE TANKS #3 FRS MODIFICATION	0	0	700	0	0	700
Litchfield Pk	4		RID CANAL OVERCHUTE (R09)	135	0	253	147	0	535
Goodyear	4		BULLARD WASH OVERCHUTE OF BID CANAL	135	0	125	1,640	1,060	2,960
Multiple	1	P6A480	QUEEN CREEK ADMP	156	0	1,300	3,700	0	5,156
Queen Cr.	1		RITTENHOUSE	156	0	1,300	3,700	0	5,156
Mesa	1		ELLSWORTH / GERMANN COLLECTOR CHANNEL	0	0	0	0	0	0
Chandler	1,5	P6A490	GILBERT/CHANDLER ADMP	0	0	1,250	1,950	3,600	6,800
Chandler	1,5		GILA DRAIN - MCCLINTOCK	0	0	950	1,950	1,480	4,380
Chandler	5		GILA DRAIN ALIGNMENT	0	0	300	0	0	300
Chandler	1,5		SEG.3-MCCLINTOCK TO PRICE	0	0	0	0	2,120	2,120
Multiple	3	P6A580	ACDC ADMP	6,596	1,879	1,856	1,250	1,000	12,581
Phoenix	3		10TH ST WASH CHANNEL IMPROVEMENT	294	0	0	0	0	294
Phoenix	3		10TH STREET BASIN #1	226	144	1,856	0	0	2,226
Phoenix	3		10TH STREET BASIS #2	729	0	0	1,250	1,000	2,979
Phoenix	3		BEARDSLEY RD REG DRAIN: I-17 - CAVE CR	4,971	1,520	0	0	0	6,491
Phoenix	3		BEARDSLEY RD REG DRAIN: CAVE CR - 32ND ST	0	0	0	0	0	0
Phoenix	2		46TH ST/SHEA BLVD CHANNEL	141	150	0	0	0	291
P.V.	2		DOUBLETREE RANCH RD DRAINAGE	235	65	0	0	0	300
Phoenix	3	P6A600	CAVE CREEK IMPROVEMENT	0	0	0	0	160	160
Phoenix	3		UNION HILLS TO BEARDSLEY	0	0	0	0	160	160
Phoenix	4,5	P6A620	MARYVALE ADMP	75	0	0	200	0	275
Phoenix	4,5		GRAND CANAL DETENTION BASINS	75	0	0	200	0	275

Flood Control District of Maricopa County: Capital Improvement Program

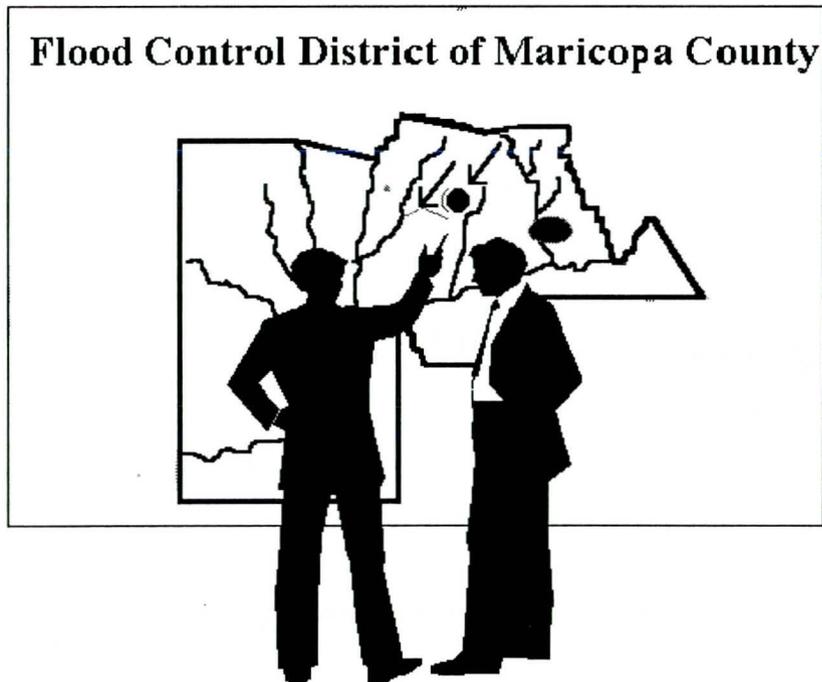
<b>CIP PROJECT BUDGET/SCHEDULE</b>						x \$1,000					
19 Oct 94											
City	Dist.	ACT #	DESCRIPTION	FY 94/95	FY 95/96	FY 96/97	FY 97/98	FY 98/99	TOTAL		
				0.3632	0.3632	0.3632	0.3632	0.3632			
Scottsdale	2	P6A680	UIBW ADMP	764	0	870	1,000	3,000	5,634	*	
Scottsdale	2		SCOTTSDALE & PHOENIX	20	0	0	0	0	20	*	
Scottsdale	2		REATA PASS CHANNEL - PHASE I	744	0	870	1,000	1,300	3,914		
Scottsdale	2		REATA PASS CHANNEL - PHASE II	0	0	0	0	0	0	*	
Scottsdale	2		RAWHIDE WASH CHANNEL - PHASE I	0	0	0	0	0	0	*	
Scottsdale	2		RAWHIDE WASH CHANNEL - PHASE II	0	0	0	0	0	0	*	
Scottsdale	2		PIMA ROAD CHANNEL	0	0	0	0	1,700	1,700	*	
			<b>INDIRECT CHARGES</b>	904	904	904	904	904	4,520		
			<b>FORCE</b>	2,103	2,103	2,103	2,103	2,103	10,515		
			<b>PROJECTS TOTAL</b>	33,284	21,749	25,415	20,283	20,983	121,714		
<b>REIMBURSEMENTS</b>											
Phoenix	1,2,3,5	P6A103	MCDOWELL TO ARIZONA CANAL	2,800		3,000			5,800		
Peoria	4	P6A400	DESERT HARBOR DROP STRUCTURE	844					844		
Mesa	2	P6A441	UNIVERSITY DRIVE DRAINAGE	400					400		
Peoria	4	P6A450	GLENDALE/PEORIA ADMP				1,300	2,000	3,300		
Glendale	4	P6A470	COLTER CHANNEL (R01)	350					350		
Glendale	4,5	P6A470	DYSART DRAIN/REEMS RD. CONNECTOR	1,770	1,766	2,432			5,968		
Phoenix	3	P6A580	BEARDSLEY ROAD REG. DRAIN	591					591		
			<b>SUBTOTAL REIMBURSEMENTS</b>	-6,755	-1,766	-5,432	-1,300	-2,000	-17,253		
			<b>TOTAL (NET)</b>	26,529	19,983	19,983	18,983	18,983	104,461		

\* = Projects not completed during this five-year CIP.

**Appendix B: CIP Project Description Sheets**

## PROJECT DESCRIPTIONS

The Project Description Sheets include general description of the projects according to their current status. They are not intended as an historical record of a project from a comprehensive perspective. In other words, projects such as the Arizona Canal Diversion Channel (ACDC) are only discussed briefly in terms of the most current part of the project that appears in the CIP.



The projects in the CIP are located in many different geographical locations throughout Maricopa County.

Some of the projects, such as basins, may be isolated to small areas while others, such as the Salt-Gila Control Works, may include a 36 plus-mile stretch of the river. Therefore, a map of the location of each project has been included to help the reader visualize the scale and vicinity of the activity.

Projects in the CIP are classified by activity code; therefore, the project descriptions are also ordered in this method. Descriptions are provided for all projects that have funds allocated in the District's 5-Year CIP.

### **FLOOD CONTROL DISTRICT BUILDING**

Activity Code: P6A001

This project includes building improvements to the Flood Control District Administrative Building, located at 2801 W. Durango, near the corner of 27th Avenue and Durango in Phoenix, to meet requirements of the Americans with Disabilities Act. Further, the project includes the installation of a fiber optic data cable trunk and network. The project also includes improvements scheduled for a maintenance facility adjacent to the Arizona Canal Diversion Channel..

### **STORMWATER MONITORING SYSTEM**

Activity Code: P6A002

The District's stormwater monitoring system, in accordance with the National Pollutant Discharge Elimination System (NPDES), has been established to collect samples used to determine the amount of contaminants that have been defined by the U.S. Environmental Protection Agency. This project includes the acquisition of stormwater monitoring stations for the Cities of Scottsdale and Glendale. There is also funding designated for the construction of a stormwater station in Tempe.

### **BEST MANAGEMENT PRACTICES**

Activity Code: P6A003

Best Management Practices (BMPs) are structural measures or practices that are designed to prevent pollutants from entering into stormwater flows in order to direct or to treat polluted stormwater flows. The CIP projects listed include dust control, treatment facilities, and wetlands projects that comply State and Federal environmental regulations.

### **FLOOD WARNING SYSTEM**

Activity Code: P6A017

The Flood Warning System is called the Automated Local Evaluation in Real Time (ALERT) system. This system includes 195 self-contained precipitation and stream gauges that transmit information instantaneously by radio waves to base station computers at the District office and the National Weather Service. The data are used for monitoring conditions at flood control structures and for archiving data for hydrologic studies. This CIP project includes instrumentation for rain gauges and other monitoring equipment for the system.

**CITY OF SCOTTSDALE**

Activity Code: P6A027

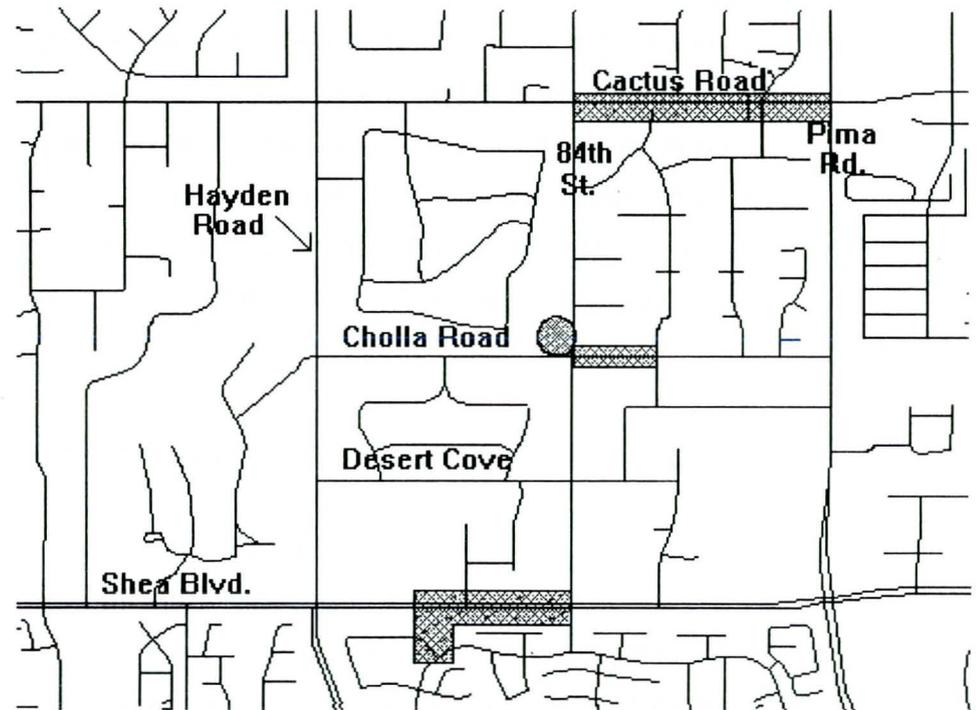
Supervisor District: 2

Township/Range: T3N R4E S24

**Project Name: 84th Street/Cholla Basin & Storm Drain**

The 84th Street/Cholla Basin and Storm Drain project includes improvements (650 cfs) in the Cholla Wash watershed of north Scottsdale between Cactus Road and Shea Boulevard to provide a 100-year level of protection. The project improves flood protection for approximately 200 homes and 1 church in a fully-developed, 250-acre area. Of this figure, 21 homes are immediately adjacent to the Cholla Wash floodplain. The project area is part of the City of Scottsdale's Hayden/Shea Area Drainage Master Plan.

A funding split of \$925,000 for Scottsdale and \$750,000 for the District has been agreed upon to construct a storm drain system, an open channel and a detention basin. Scottsdale will provide future operations and maintenance of the constructed features.



**TOWN OF GUADALUPE**

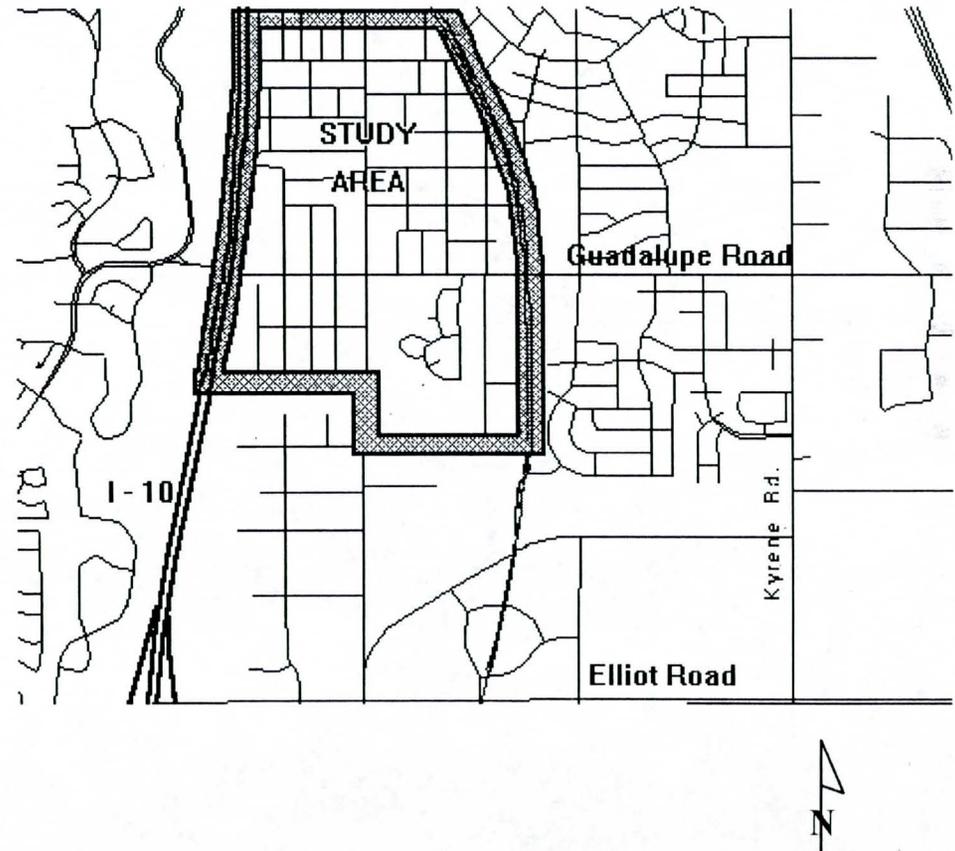
Activity Code: P6A035

Supervisor District: 5

Township/Range: T1S R4E S4, 9

**Project Name: Guadalupe Study and Improvements**

This project includes a pre-design study for the purpose of developing a comprehensive drainage master plan. The project will improve conditions for approximately one-half of the Town, which has a history of flooding problems due to stormwater flowing from the west and ponding against the Highline Canal. The severity of this problem has been lessened with the construction of the Guadalupe FRS and the reconstruction of I-10. Possible recommendations of the study include the construction of basins along the west side of the Highline Canal. The level of protection for the project will be determined by the amount of land available for the basins, which are proposed to be constructed in Salt River Project right-of-way and utilized by the Town as future park sites. Total costs are estimated to be \$700,000. The pre-design study has been initiated at a cost of \$98,000. Design of recommended alternatives is estimated at \$75,000, and construction is estimated at \$500,000 (100% District). Future O&M will be provided by Guadalupe.



## OLD CROSS CUT CANAL

Activity Code: P6A103

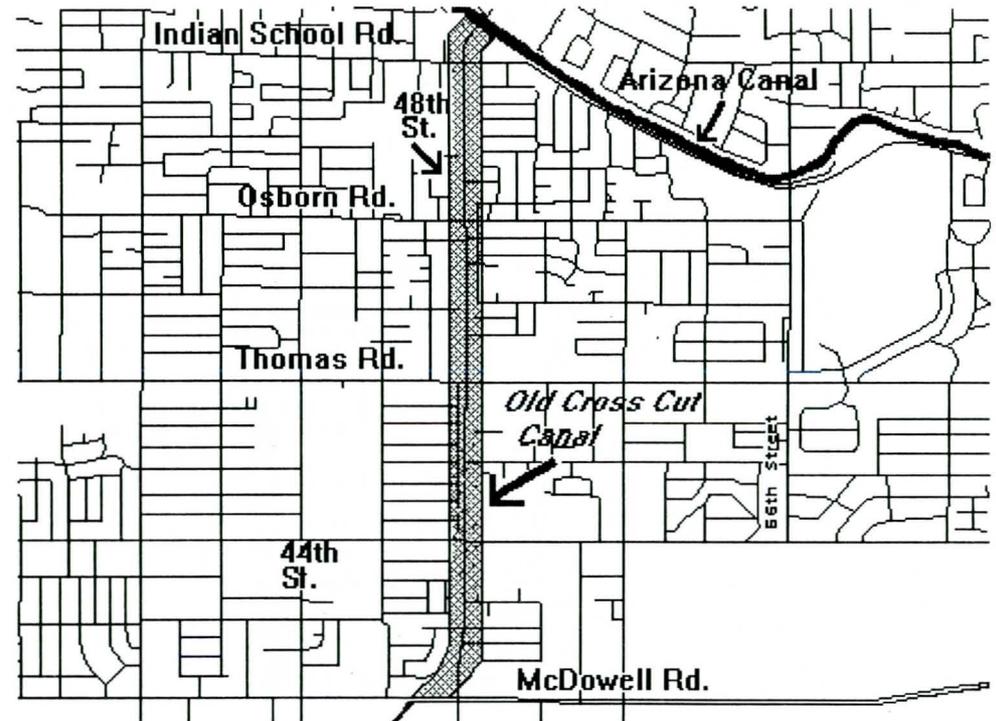
Supervisor District: 1, 5

Township/Range: T2N R4E S19, 20, 29, 30, 31, 32

### Project Name: Old Cross Cut Canal - McDowell to Arizona Canal

This project represents the major flood control and regional drainage element of the Old Cross Cut Canal project. It includes approximately 11,000 linear feet of covered concrete channel to convey present storm flows from the Old Cross Cut Canal corridor and to provide an outfall for drainage from the Arcadia area north of the Arizona Canal, taking these flows to the Salt River. The covered channel will enable the City of Phoenix to make future roadway and park improvements within the Old Cross Cut Canal corridor. The District will operate and maintain the constructed project.

Funding is also included for the pre-design concept analysis of drainage requirements for the Arcadia area.



**OLD CROSS CUT CANAL (continued)**

Activity Code: P6A103

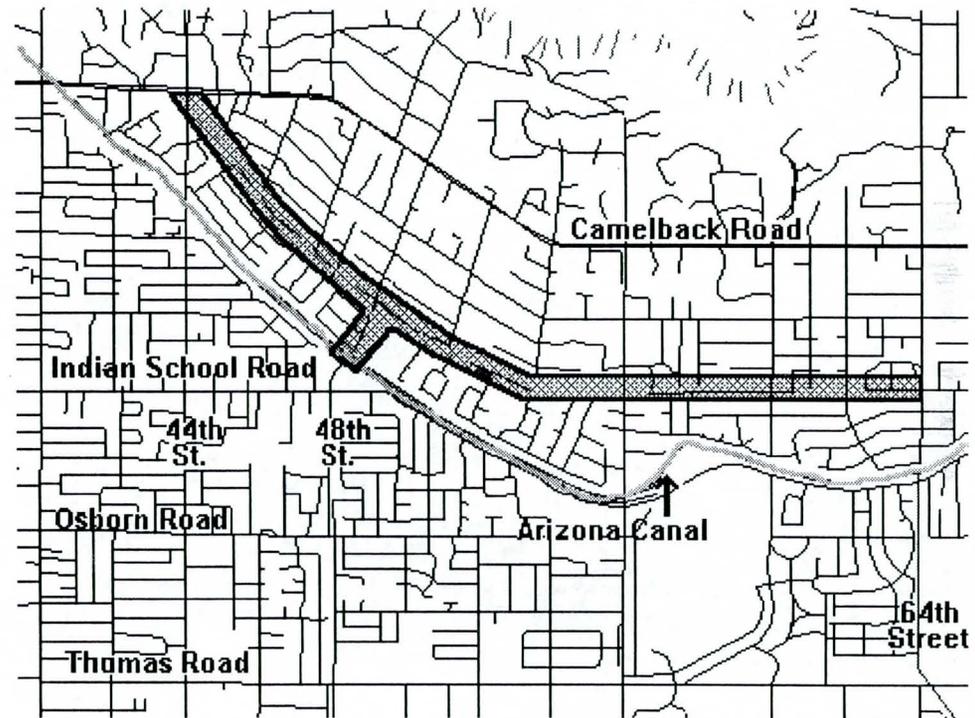
Supervisor District: 2, 3

Township/Range: T2N R4E S19-21

**Project Name: Arcadia Area Drainage Project**

The project will include storm drains which will intercept and convey 1,000 cfs or more through a highly developed residential area between 40th and 64th Street, north of the Arizona Canal. The project will create a drainage outfall for about 4 square miles, utilizing the improved Old Cross Cut Canal, and conveying the drainage to the Salt River. The project is a component of the Old Cross Cut Canal master plan.

The cost for the project is estimated at \$12,000,000, with the costs being shared between the District and the City of Phoenix at 50% each. The City will provide the operation and maintenance for the project.



## SALT GILA CONTROL WORKS

Activity Code: P6A106

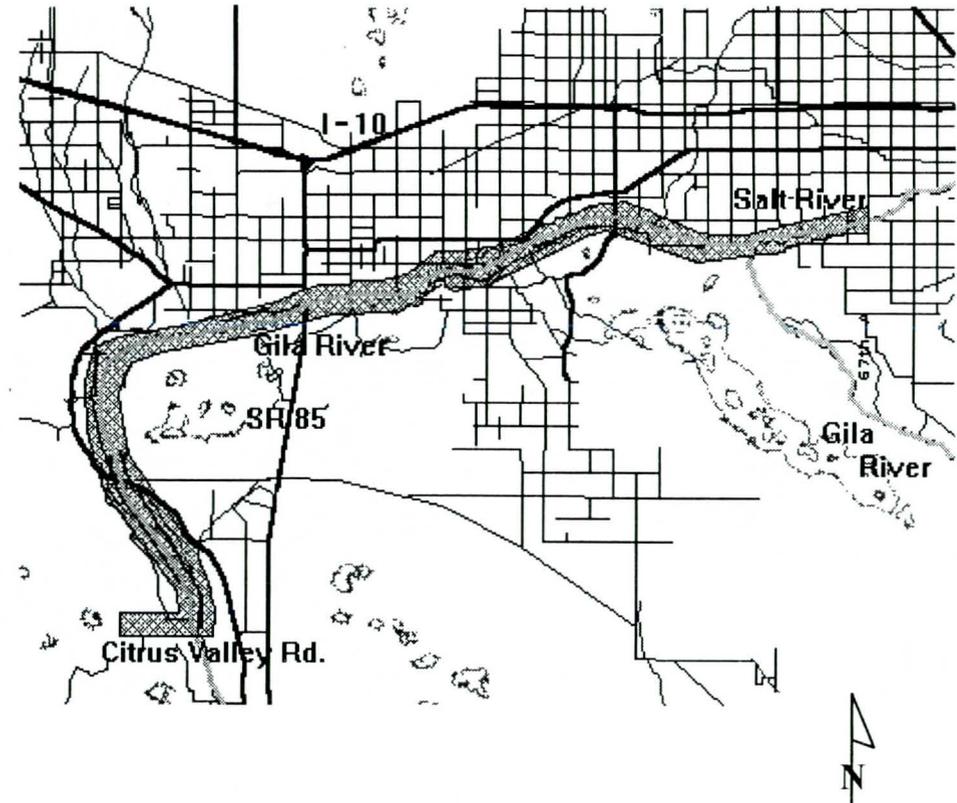
Supervisor District: 4, 5

T/R: T1N R1E; T1N R1W; T1N R2W; T1S R1E; T1S  
R1W; T1S R2W; T1S R2W; T1S R4W; T1S R5W;  
T2S R5W; T3S R4W; T3S R5W; T4S R4W; T5S  
R4W; T5S R5W

### Project Name: Salt-Gila River Management Policy Study

The purpose of the study is to investigate particular characteristics of the Salt-Gila River in order to determine an effective and financially responsible floodplain management program for the Salt-Gila River between 67th Avenue and Citrus Valley Road, west of the Town of Gila Bend (approximately 60 river miles).

The study is being undertaken in light of the near complete destruction of the 1000-foot corridor and pilot channel project by the 1993 flood. Reports will be written by a study consultant outlining a recommended policy. The policy may recommend non-structural, or other less-traditional, flood control components. The study is funded by the District, will cost approximately \$600,000, and will take 24 months complete. The work is to begin in December 1994.



## SOSSAMAN CHANNEL AND BASIN

Activity Code: P6A108

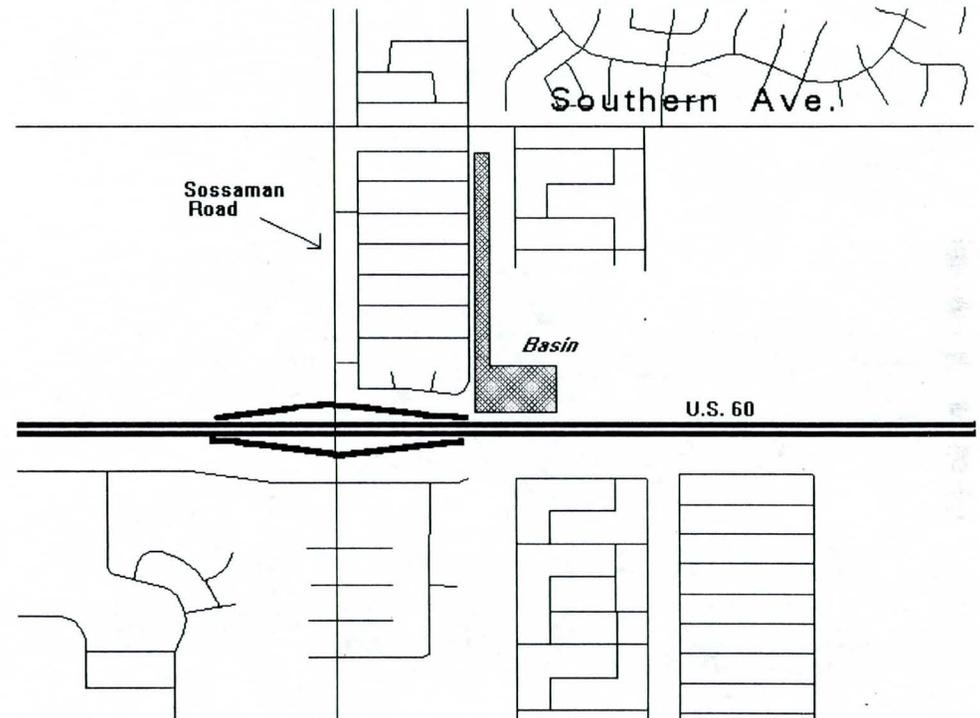
Supervisor District: 2

Township/Range: T1N R7E S31-32

### Project Name: Sossaman Channel and Basin

This project is located in east Mesa between Sossaman Road and Haws Road and Southern Avenue and the Superstition Freeway (U.S. 60). Downstream improvements, owned and operated by the District, can accommodate the conveyance of 2400 cfs. The 100-year flow is in excess of 3000 cfs. This project will improve the channel from Southern Avenue to U.S. 60 and construct a basin at the northeast corner of U.S. 60 and Sossaman Channel. The basin will act as a peaking facility, releasing flows in a manner that will not overtax the District's downstream improvements.

Construction of the Sossaman Channel project began on June 8, 1994 and will be complete by December 1994. Total cost of the improvements is \$1,069,000.



## PRICE DRAIN

Activity Code: P6A115

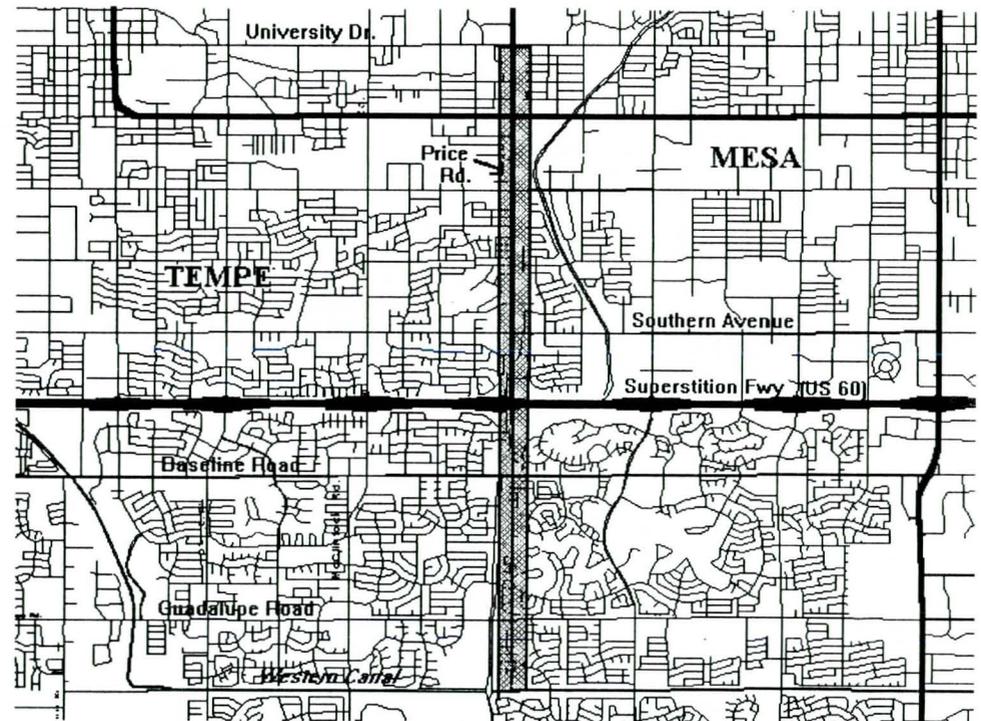
Supervisor District: 1

Township/Range: T1N R5E S18-19, 30-31; T1S R5E S5-6

### Project Name: Price Road Drain

In 1987, ADOT, the District, Mesa, and Chandler entered into an Intergovernmental Agreement for the design, construction, and construction management of the Price Road Drain. This storm drain project extends south from the Salt River to Carriage Lane Park in Mesa. It is designed to serve ADOT's Price Road Freeway drainage needs and serve as an outfall for Mesa and Chandler storm drains, accommodating up to 230 cfs from the region. The drain varies in diameter from 9-18' and is buried up to 60' deep. The outfall, at the Salt River, is a combination of a U-shaped channel and box culvert.

The total cost of the project is \$49,593,431. The District's share is \$8,972,825. Construction of the facility is complete, with the exception of the reach from U.S. 60 south to Carriage Lane Park. ADOT is currently constructing the tunnel outfall to the Salt River from the Price Drain. ADOT is proposing to downsize the Carriage Lane outfall pipe from 108" to 84" in order to reduce costs.



**LAVEEN ADMP**

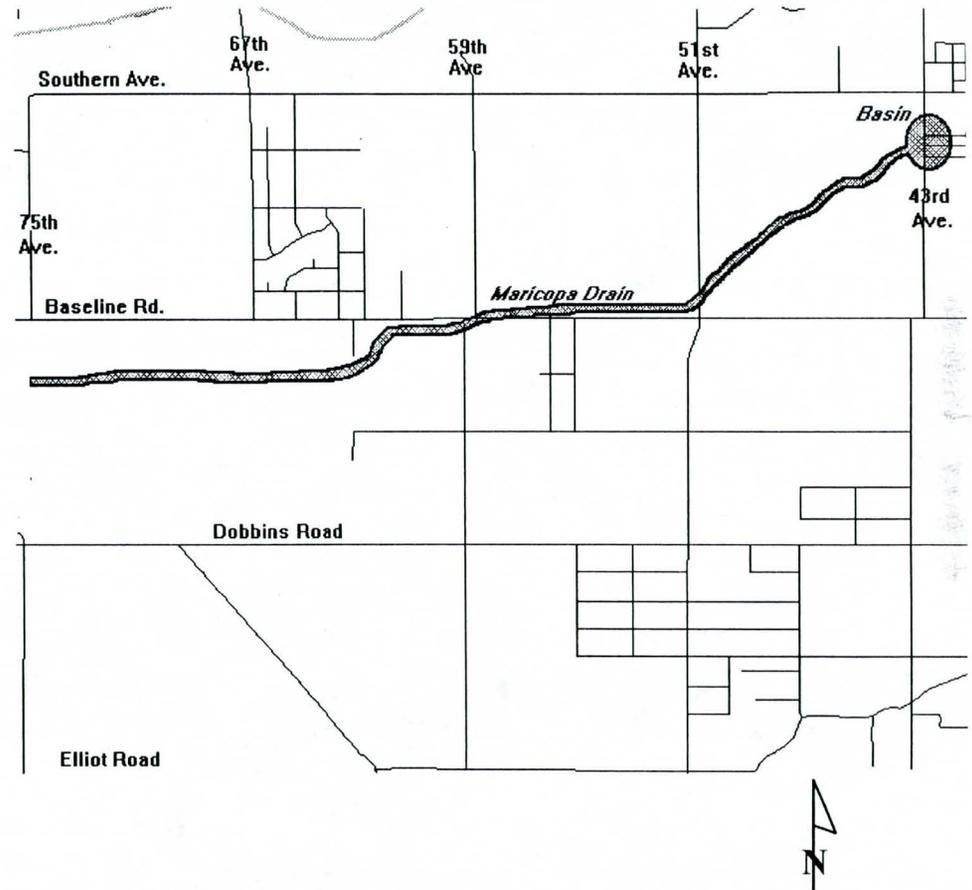
Activity Code: P6A117

Supervisor District: 1, 5

Township/Range: T1N R2E; T1N R3E

**Project Name: Maricopa Drain (43rd Ave./Burgess Ln.)**

A 21-square mile watershed generates 2200 cfs during the 100-year event and causes 2-3' of flooding in a subdivision of several hundred homes near 43rd Ave. between Baseline Rd. and Southern Ave. These flood depths occur around several dozen homes on an annual or more frequent basis. The project includes several detention basins and an outfall drain to provide 100-year protection to about 50 homes and approximately 2000 acres of farmland. It would also reduce the need for a bridge (intended to span the potential flood hazard area) that is planned as part of ADOT's Southwest Loop. The project is under review as part of the Laveen ADMS. Structural solutions preferred by other interests range up to \$12 million. It is assumed that a majority of the funding for this project would be by the District, with O&M shared by the District, the Maricopa County Department of Transportation and the Salt River Project.



**ARIZONA CANAL DIVERSION CHANNEL (ACDC)**

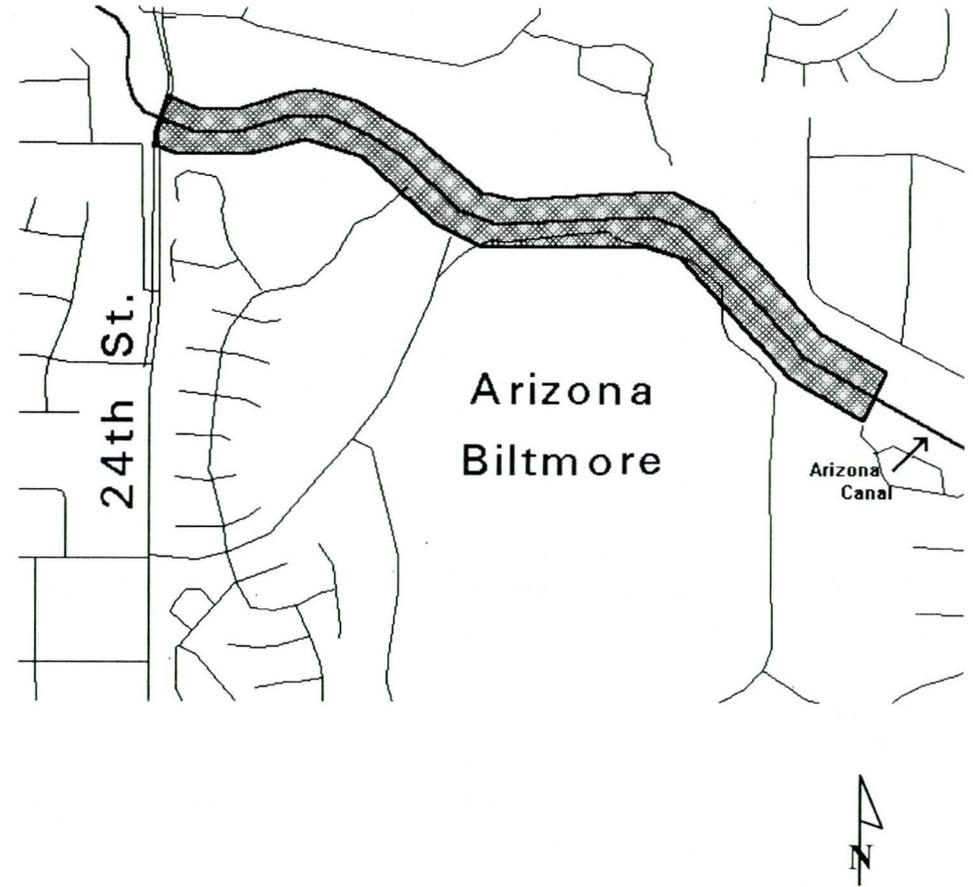
Activity Code: P6A118

Supervisor District: 2, 3

Township/Range: T2N R3E S11, 14

**Project Name: ACDC Property Acquisition**

This project includes certain property acquisition costs for the Arizona Canal Diversion Channel project north of the Arizona Biltmore area, to the east of 24th Street. Construction on the Arizona Canal Diversion Channel was completed last year.



**PVSP - CACTUS ROAD FLOOD CONTROL SYSTEM**

Activity Code: P6A120

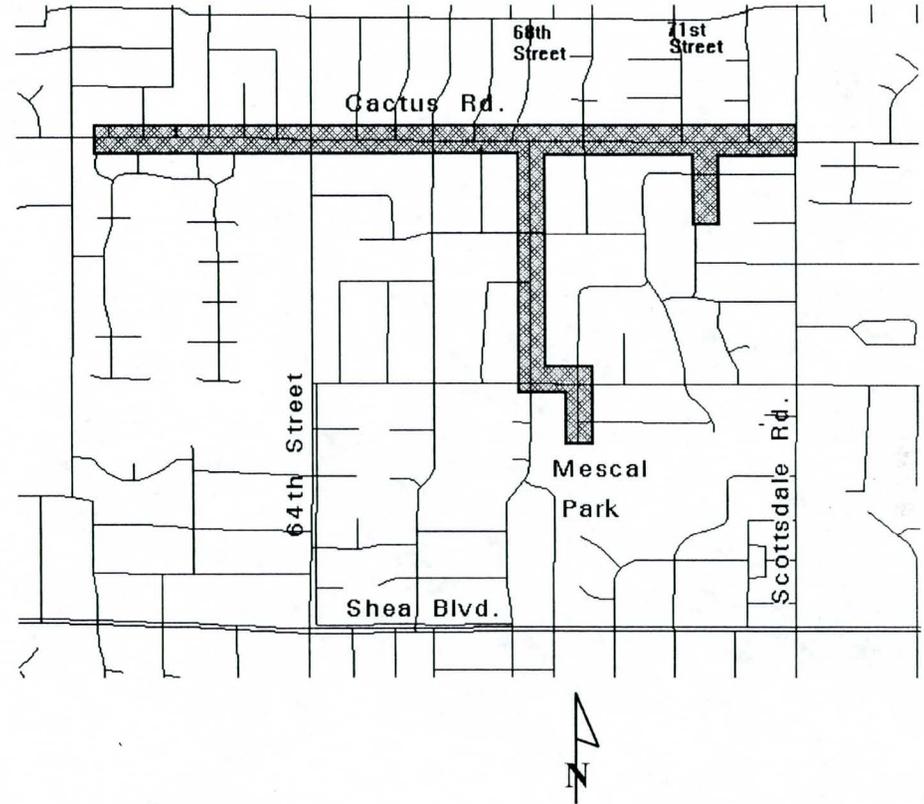
Supervisor District: 2

Township/Range: T3N R4E S22

**Project Name: PVSP - Cactus Road Flood Control System**

The project provides a minimum of 10-year storm drain and channel capacity in a manner consistent with the recommendations of the Paradise Valley/Scottsdale/Phoenix (PVSP) Master Drainage Plan. The FCD participated in the preparation of the PVSP plan and assisted in the construction of Project "C" from the plan. This project will reduce flooding and improve traffic safety for approximately 1 square mile below Cactus Road between 62nd Street and Scottsdale Road. The area to be protected contains approximately 300 residences (most built prior to incorporation), a grade school and a middle school.

Two of three project elements, the 71st Street open channel and the 68th Street outfall storm drain, are complete. The estimated \$130,000 in the FY 94-95 Budget represents the final 25% of the Cactus Road interceptor storm drain, the third element of the project.



**SALT RIVER CHANNEL**

Activity Code: P6A125

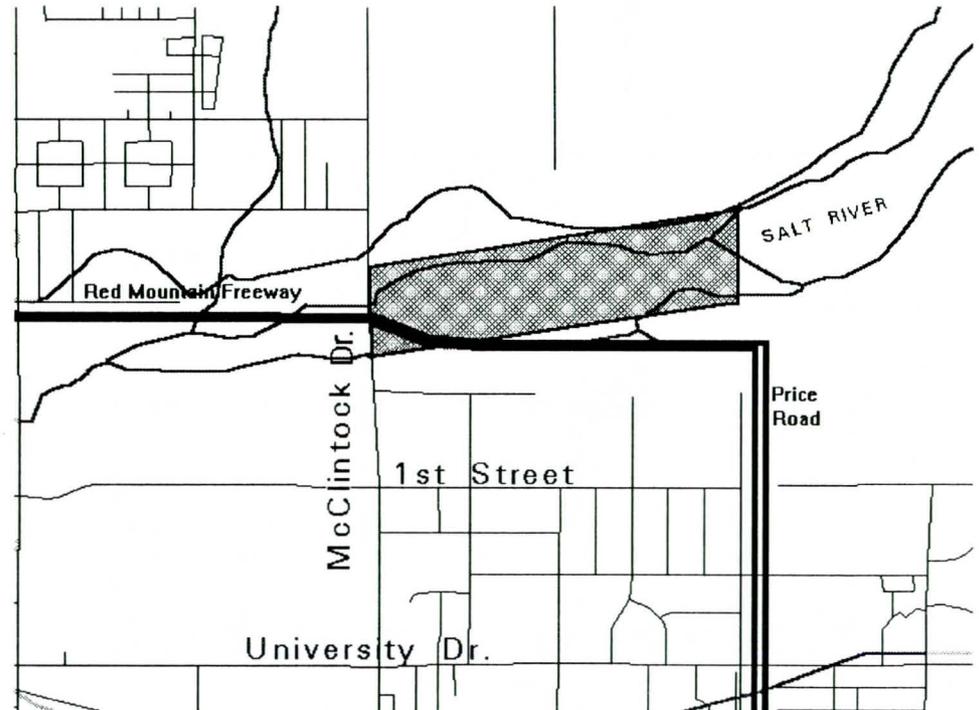
Supervisor District: 1, 5

Township/Range: T1N R4E S12-13

**Project Name: Salt River Channel - McClintock/Price**

This project includes improvements to the Salt River to provide 100-year level of protection (215,000 cfs) from McClintock Drive east to Price Road. The project, which is being constructed as part of the Red Mountain Freeway project, will provide protection for an area containing light industrial and commercial development and multiple landfill sites, which are within an EPA-designated Federal Superfund site. Completion of this channel segment will result in continuous 100-year protection along the Salt River from 40th Street to Price Road. The project corridor may be incorporated into the future Rio Salado project and is Tempe's highest priority.

Cost is estimated to be between \$10.5 million and \$13.7 million, with up to \$11 million borne by the District. Future operations and maintenance will be provided by the District at an estimated cost of \$25,000 per year.



**MCMICKEN DAM**

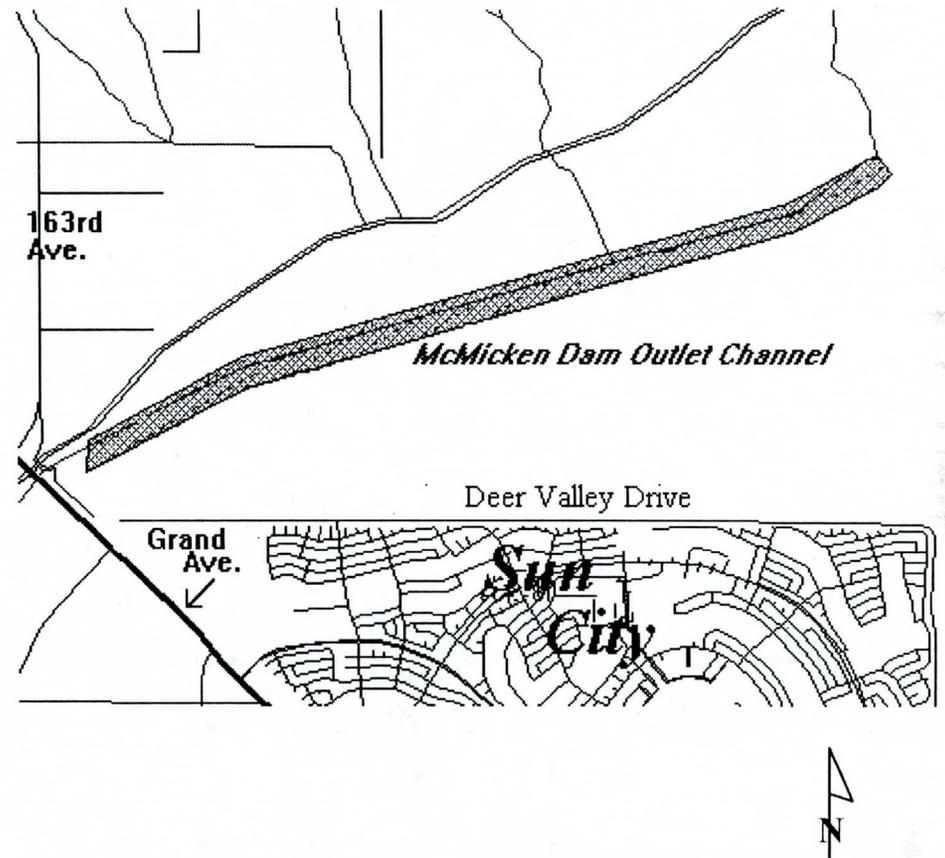
Activity Code: P6A204

Supervisor District: 4

Township/Range: T4N R1W S8-11, 16-18

**Project Name: McMicken Dam Outlet Channel**

This project includes the acquisition of land for the McMicken Dam Outlet Channel. McMicken Dam is located northwest of Sun City West. When the McMicken Dam and outlet channel were constructed in the mid-1950s, the land rights were generally acquired as "flow easements" for a nominal consideration. Several years ago, the District's General Counsel recommended that fee title be acquired, and staff has been budgeting for incremental acquisition each year.



## 94TH STREET UTILITY SERVICES

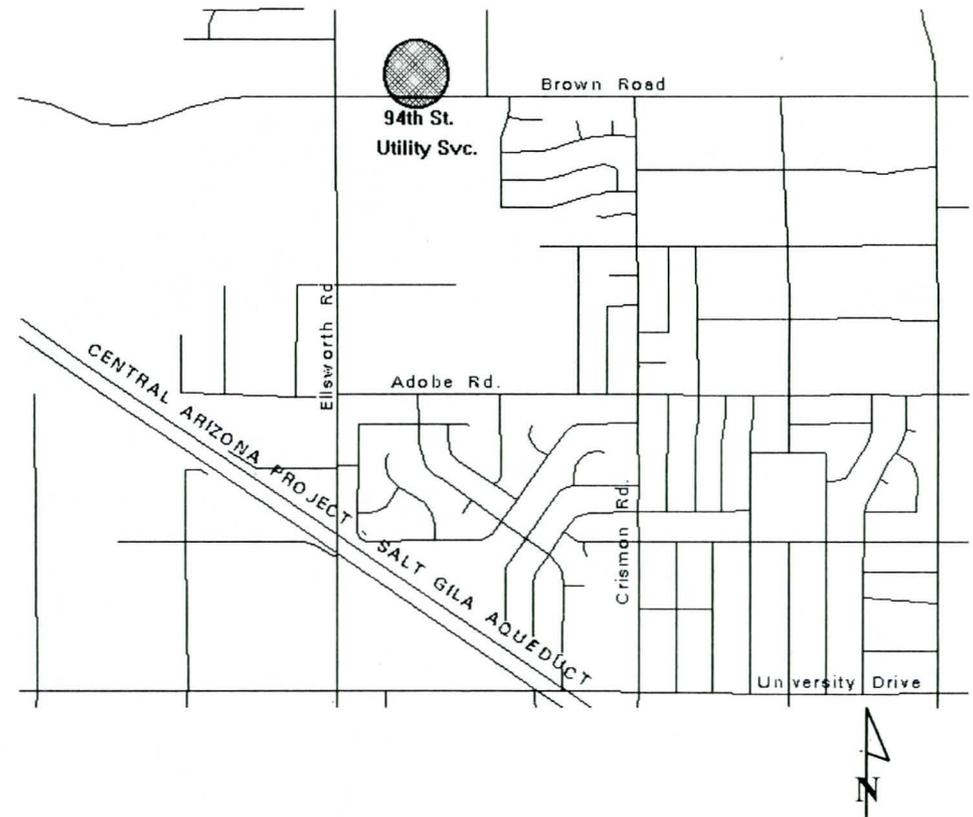
Activity Code: P6A301

Supervisor District: 2

Township/Range: T1N R7E S10

### Project Name: 94th Street Utility Services

The project consists of tunneling and installing a water service under the Signal Butte Floodway at 94th Street in East Mesa. When the floodway was constructed, the District acquired 2 residential properties, with one on each side of the floodway. Neither home has city water service, and the residents rely on a trucked water/cistern service. The homes are excess to the District's needs and will be sold at auction when the water service is installed.



## BULLDOG FLOODWAY

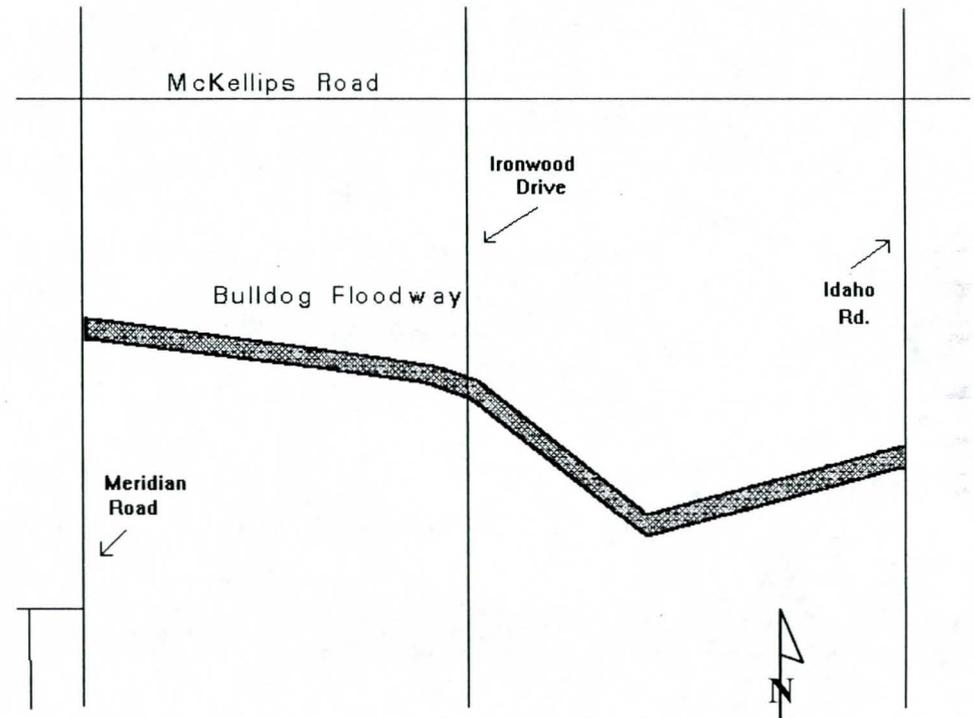
Activity Code: P6A305

Supervisor District: 2

Township/Range: T1N R8E S7-8

### Project Name: Bulldog Floodway Ramps

This project includes the construction of ramps at the Bulldog and Apache Floodways, which are located in the Buckhorn-Mesa area, northeast of Mesa. The floodways were constructed by the Soil Conservation Service (SCS) to convey stormwater from the Apache Junction FRS through other SCS structures and ultimately to the Salt River. Access ramps are required to facilitate maintenance of the floodway. Estimated cost to construct the ramps is \$75,000.



**WICKENBURG ADMP**

Activity Code: P6A343

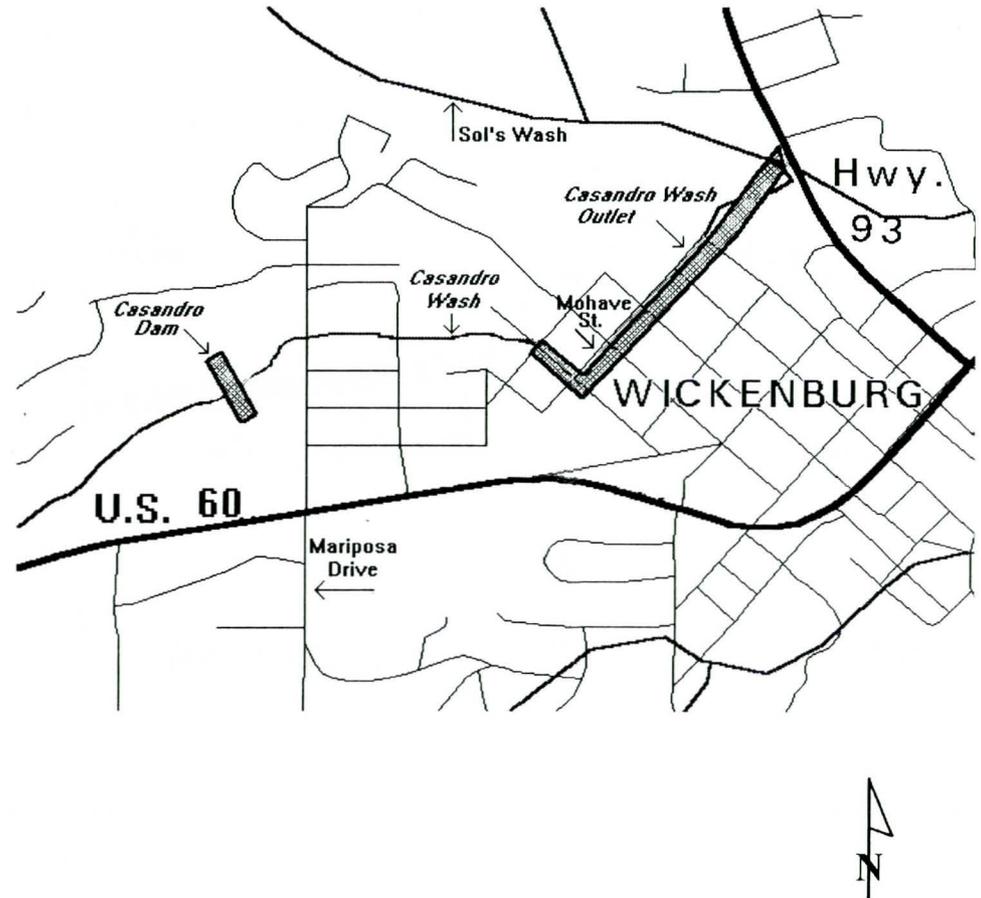
Supervisor District: 4

Township/Range: T7N R5W S1, 3, 11-12

**Project Name: Casandro Wash Dam and Outlet**

Casandro Wash originates in the Vulture Mountains and flows to the northeast through the Town of Wickenburg. The wash utilizes the roadways of a residential neighborhood to carry flows to Sol's Wash, and approximately 98 residences are located in Casandro Wash's 100-year floodplain. Town officials have indicated that Casandro Wash Dam is their top priority flood control project.

The dam, which is to be constructed in the wash north of US Highway 60 and approximately 1/4-mile east (upstream) of Mariposa Drive will remove the majority of the floodplain. Casandro Wash Outlet, which is to begin approximately 1/2-mile downstream of the dam and continue to Sol's Wash, will remove the remainder of the floodplain. The Town agrees to operate and maintain the outlet and provide Town-owned rights-of-way to the District at no cost. The project is estimated to cost \$4 million, including design, rights-of-way, and construction.



**ADOBE DAM**

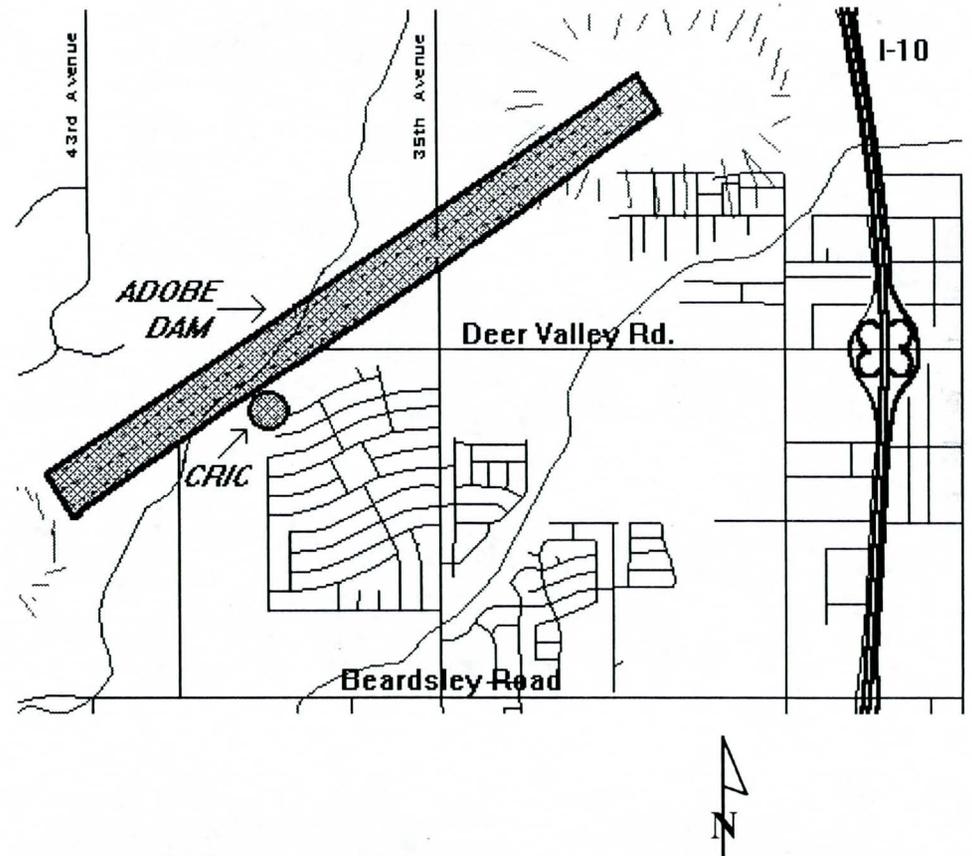
Activity Code: P6A360

Supervisor District: 3, 4

Township/Range: T4N R2E S14-15, 21-22

**Project Name: Adobe Dam Parking Lot**

Adobe Dam is located on Skunk Creek about one mile west of the Black Canyon Freeway (I-17) at about Deer Valley Road. This CIP project includes the construction of a parking lot at the recently-constructed Cultural Resources Interpretive Center (CRIC) and is required by an approved IGA with the COE that was signed in June 1992. Plans for paving the parking lot, as well as the site plan, have been completed. Construction was completed in October 1994. The Center will be operated and managed by Arizona State University.



## SKUNK CREEK IMPROVEMENTS

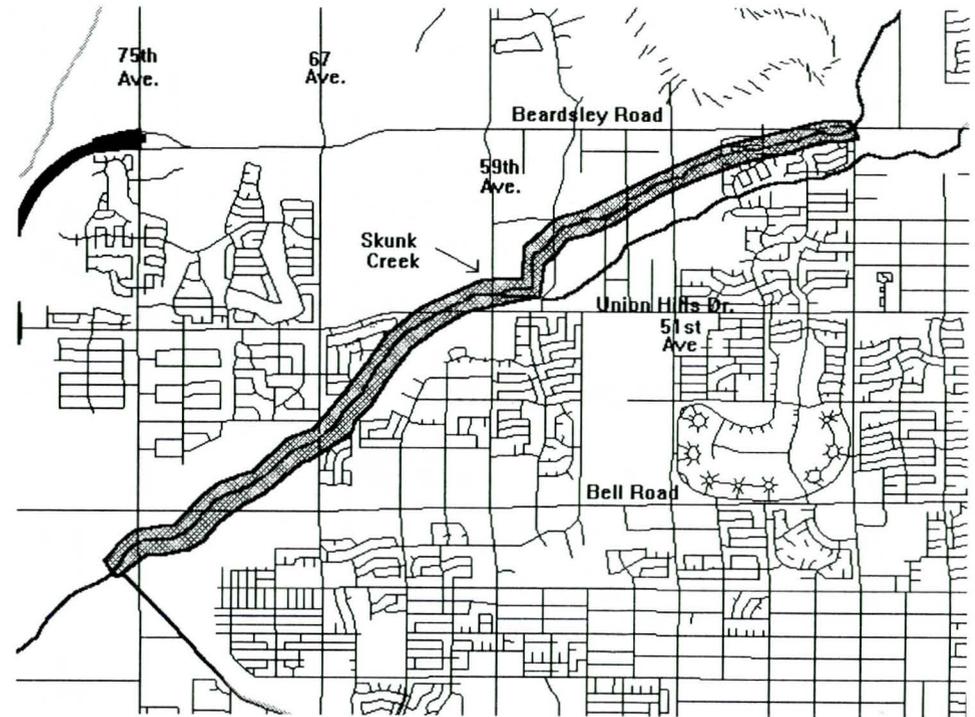
Activity Code: P6A362

Supervisor District: 4

T/R: T4N R2E S28-31; T4N R1E S36; T3N R1E S1-2

### Project Name: Skunk Creek Improvements

Through the District's 221 Agreement with the COE for the Phoenix and Vicinity Project, we have agreed to assure 100-year conveyance capacity along Skunk Creek between Adobe Dam and the ACDC. A recent floodplain study for Skunk Creek indicates that, in several locations, the 100-year flood breaks out of existing channel banks. The District has initiated a Master Drainage Study for this corridor (\$174,000) to identify specific channel sizes and amenities that will meet the needs of local interests. The District will participate with Phoenix, Glendale and Peoria on design and construction of the channel reaches experiencing breakouts. It is anticipated that the remaining segments of the channel corridor will be constructed by private interests as vacant lands on the channel banks are urbanized. Total costs for the project, including the Master Plan, are estimated at \$2.44 million. Cost sharing agreements for constructing the improvements have not been completed. Future O&M will be provided by Phoenix, Glendale and Peoria.



**SKUNK CREEK/NEW RIVER**

Activity Code: P6A400

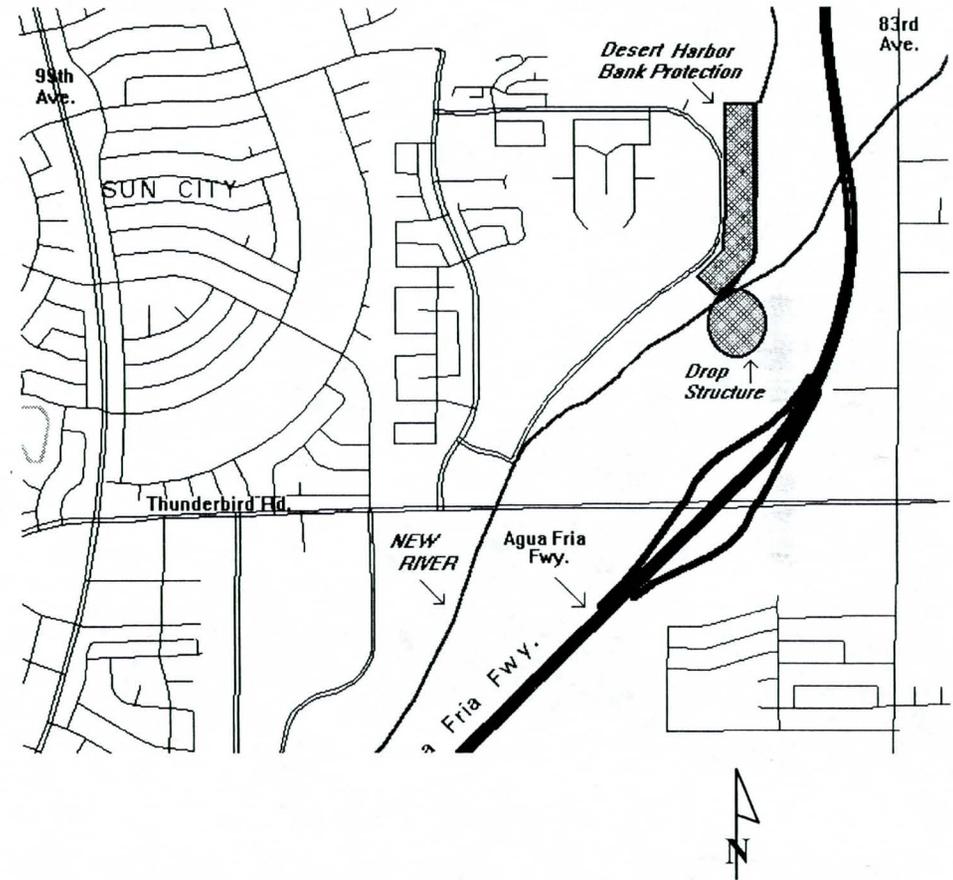
Supervisor District: 4

Township/Range: T3N R1E S10

**Project Name: Desert Harbor Drop Structure**

This project includes the completion of the last 2 reaches of the New River channelization, land acquisition in the Camelback Ranch area, which has recently been completed, and the Desert Harbor Drop Structure. Presently, the District is developing alternative bank protection scenarios for Camelback Ranch. The Desert Harbor project consists of a drop structure, soil cement bank protection and channel excavation and forming. The District will be reimbursed \$844,000 from the City of Peoria as their participation in the Desert Harbor project.

The District cost share for the Desert Harbor project is estimated at \$1.1 million. An IGA with the City of Peoria was approved in June 1994. Construction of the drop structure is scheduled to start in late 1994.



**AGUA FRIA - FLOWAGE EASEMENTS**

Activity Code: P6A401

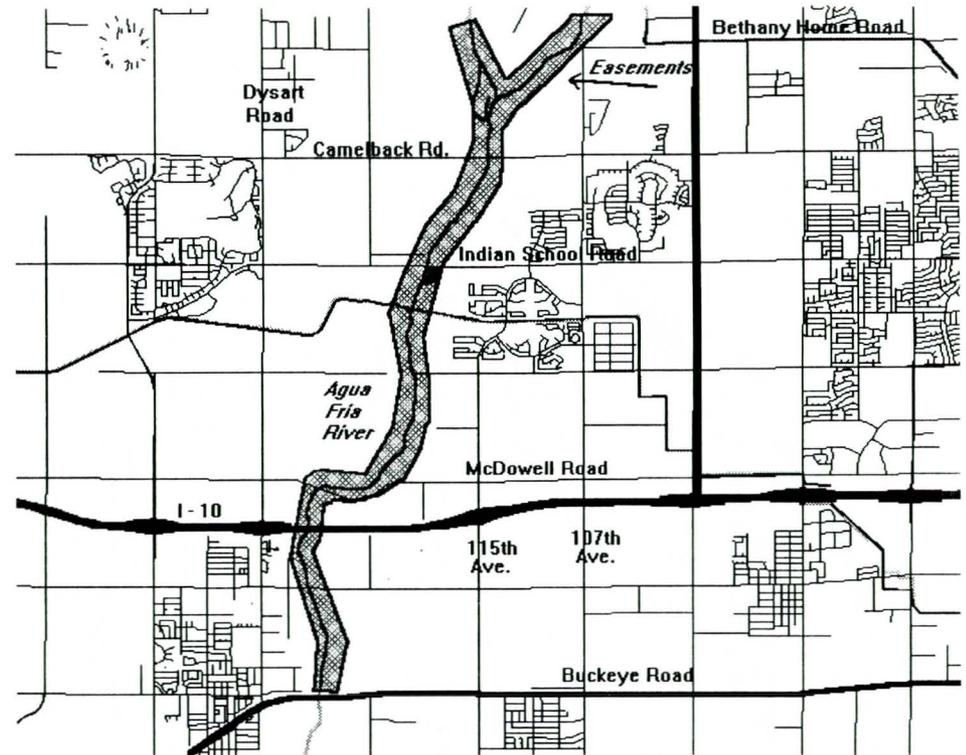
Supervisor District: 4, 5

Township/Range: T2N R1W S25, 36; T1N R1W S2, 11

**Project Name: Agua Fria Flowage Easements**

This project includes the acquisition of flowage easements along the Agua Fria River following completion of the Agua Fria Channelization project, between Indian School Road and Lower Buckeye Road in 1988. These flowage easements are required by the District's agreement with the Corps of Engineers as a part of the Phoenix, Arizona and Vicinity flood control project, which consists of 4 major flood control dams and the ACDC project.

The remaining easements to be acquired are in the vicinity of 107th Avenue and south of Bethany Home Road.



## UNIVERSITY DRIVE DRAINAGE IMPROVEMENTS

Activity Code: P6A441

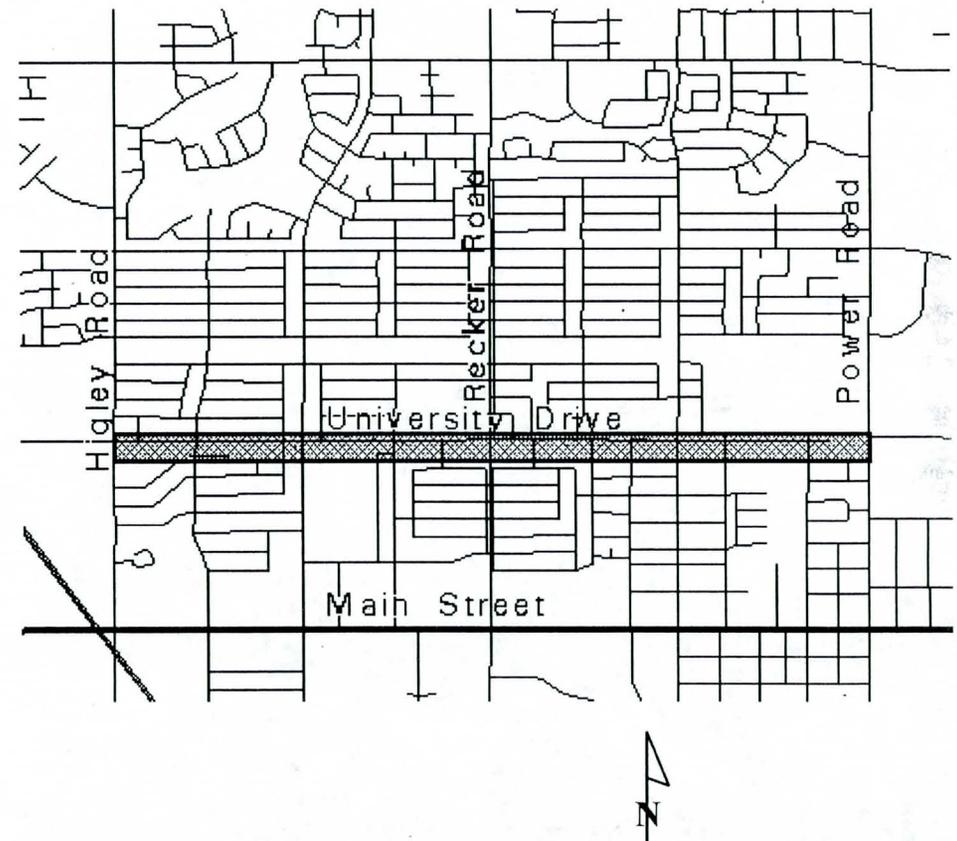
Supervisor District: 2

Township/Range: T1N R6E S13-14

### Project Name: University Drive Storm Drain

This project includes a major storm drain in University Drive between Higley Road and 67th Street in East Mesa, and the construction of a channel and retention basin on the north side of University Drive, between 62nd Street and Power Roads. The project provides drainage relief and flood protection for portions of east Mesa and the County island containing Dreamland Villa. In this area, the low curbs and gutters and lack of storm drains frequently cause flooding problems.

The drainage improvements, which were made in conjunction with a major street improvement project by the Maricopa County Department of Transportation, were completed in September 1994. Future O&M will be shared between the District (basin) and MCDOT (storm drain).



**GLENDALE/PEORIA ADMP**

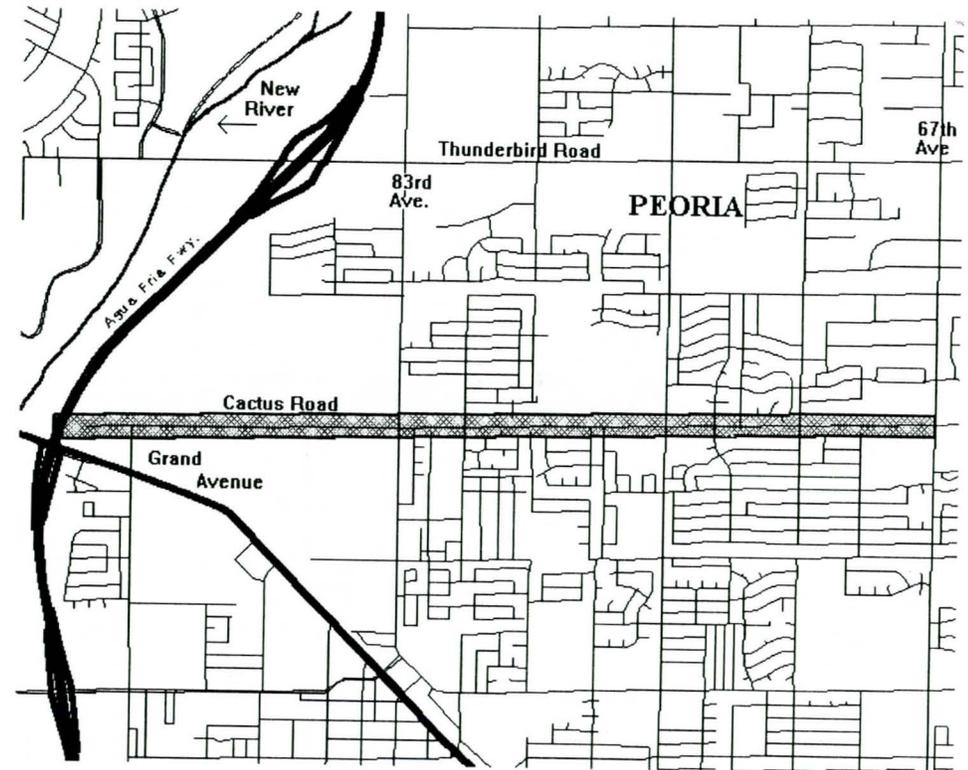
Activity Code: P6A450

Supervisor District: 4

Township/Range: T3N R1E S13-16

**Project Name: Cactus Road Storm Drain**

This project includes a 10-year storm drain running west in the Cactus Road alignment beginning at 67th Avenue and continuing to New River via the drainage channel constructed for the Agua Fria Freeway (Outer Loop). The project will benefit a 3.5 square mile area in Peoria and Glendale. The drain will provide an outlet for future municipal storm drains. The cost is estimated at \$9.5 million (50% by the District, 50% by Glendale and Peoria). Peoria will provide operations and maintenance for this project. Design has been completed by the District. An IGA with the Cities of Glendale and Peoria was approved in April 1994.



**LENDALE/PEORIA ADMP (continued)**

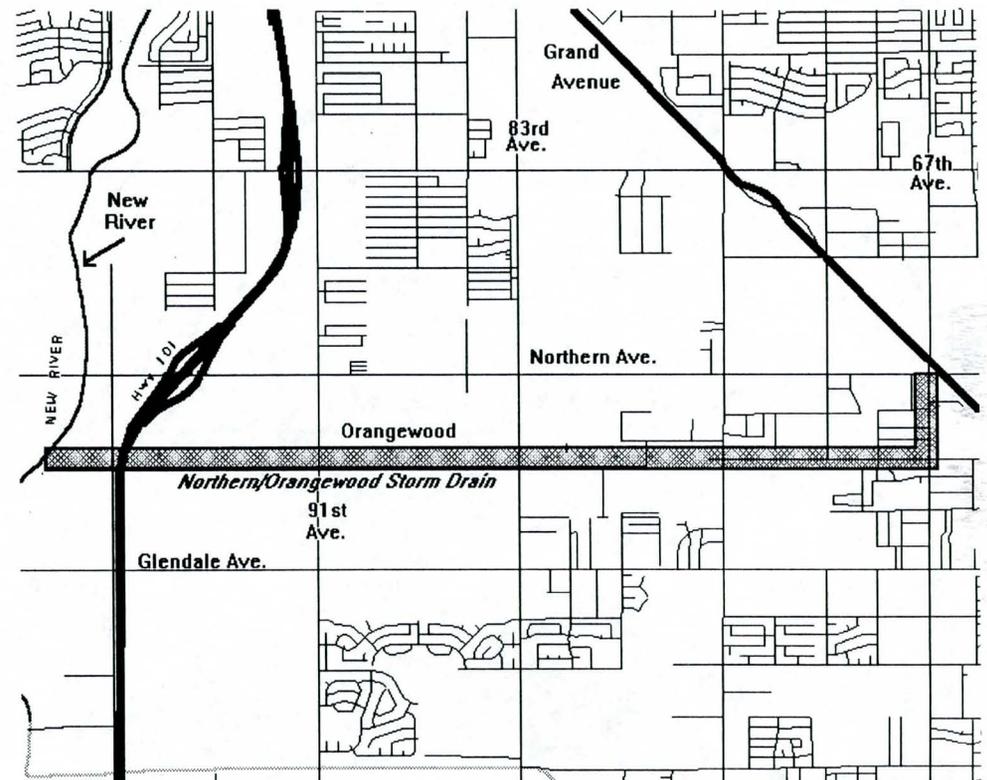
Activity Code: P6A450

Supervisor District: 4

Township/Range: T2N R1E S1-5

**Project Name: Northern/Orangewood Storm Drain**

This project includes a 10-year storm drain, running west between the Orangewood Avenue and Northern Avenue alignments from 67th Avenue to New River. The project will benefit 9 square miles of existing development in the unincorporated County, Glendale and Peoria that have been subjected to several flood events in the past 4 years. The drain will also provide an outlet for future municipal storm drains and ADOT's Grand Avenue project. The District plans to construct 2 detention basins (1 each in Glendale and Peoria) along the drain corridor in order to reduce pipe costs while increasing the future level of protection and providing water quality and recharge benefits. Total costs are estimated at \$16.5 million (50% the District, 50% by Glendale and Peoria). Glendale will provide O&M for the portions of the project in Glendale and the unincorporated County, while Peoria will provide O&M for the portions within its city limits. An IGA with the cities was approved in April 1994. The District has acquired the basin sites at a savings of \$3 million from the original 1987 estimate.



## EAST FORK CAVE CREEK ADMP

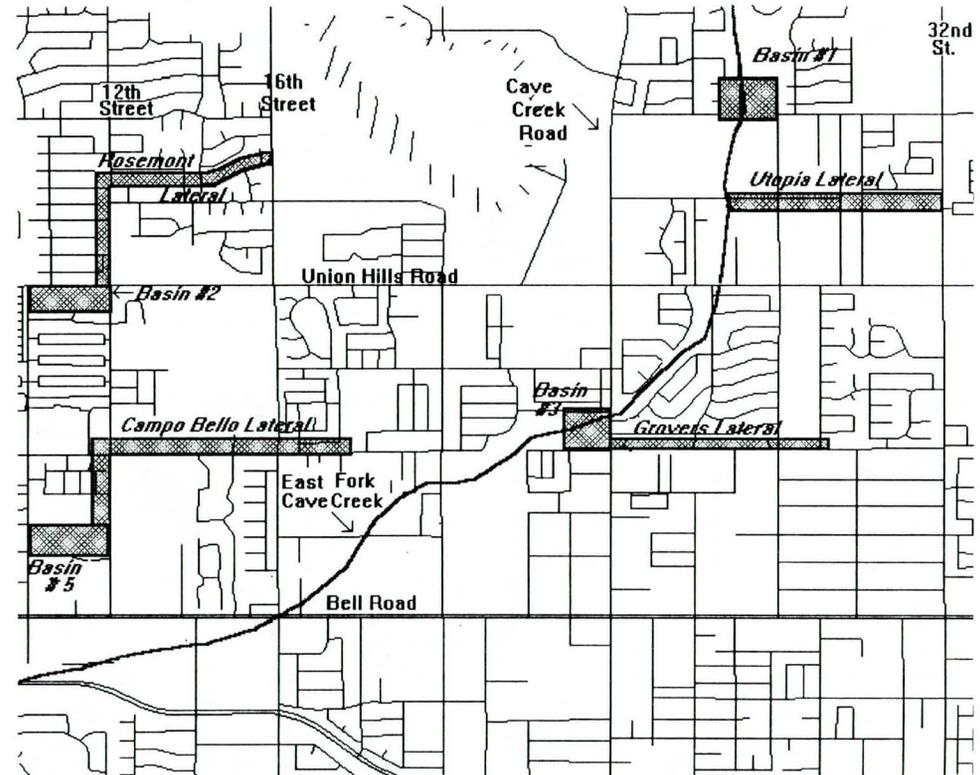
Activity Code: P6A460

Supervisor District: 3

Township/Range: T4N R3E; T3N R3E

The East Fork Cave Creek (EFCC) watershed includes approximately 16 square miles and was studied in the EFCC ADMS. The study's objective was to determine the extent of the 100-year flood and to develop appropriate flood control alternatives. The preferred alternative developed in the study included the following items: 1) five detention basins; 2) one mile of channel improvements from Beardsley Road to Union Hills Drive; and, 3) four laterals--Rosemont Drive, Utopia Road, Grovers Avenue, and Campo Bello Drive. The channel improvements and three of the five basins are complete. The remaining basins, #2 & #5, are currently being constructed.

The laterals are the only items remaining to be constructed and are integral to the 100-year flood control system. Overland flows are captured by inlets along the laterals, and then the flows are conveyed by the laterals to either the East Fork Cave Creek Channel or the detention basins. Without the laterals in place, the detention basins will not be utilized.



**EAST FORK CAVE CREEK ADMP (cont'd)**

Activity Code: P6A460

Supervisor District: 3

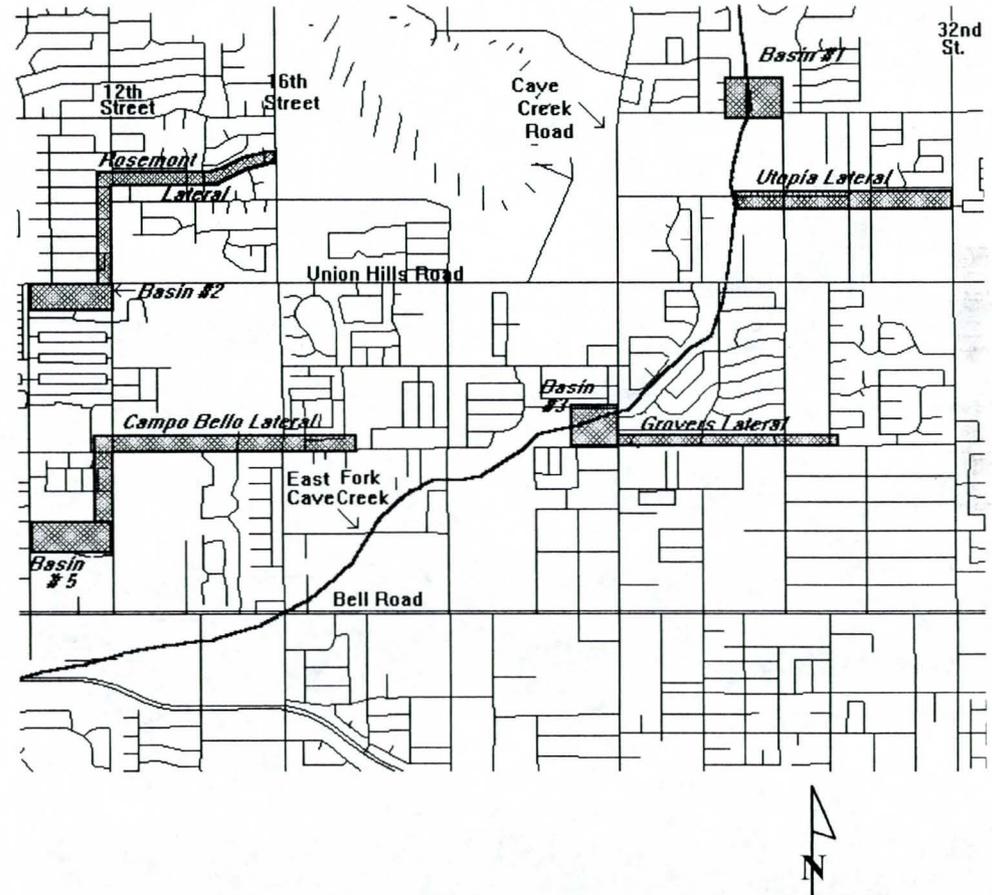
Township/Range: T4N R3E; T3N R3E

**Project Name: Rosemont Drive Lateral**

Rosemont Drive Lateral begins at 16th Street and Rosemont Drive and then heads west along Rosemont Drive to 12th Street. At 12th Street, Rosemont Drive Lateral heads south to Union Hills Drive where it will outfall into Detention Basin #2. The lateral ranges in size from a 66" to an 84" diameter concrete pipe. The lateral is approximately 3200 linear feet with an estimated construction cost of \$1.4 million.

**Project Name: Utopia Road Lateral**

Utopia Drive Lateral begins at 32nd Street and Utopia Drive and heads west along Utopia Drive to the EFCC Channel, where it will outfall into the channel. The lateral ranges in size from a 48" to an 84" diameter concrete pipe. The lateral is approximately 3300 linear feet with an estimated construction cost of \$1.0 million.



**EAST FORK CAVE CREEK ADMP (cont'd)**

Activity Code: P6A460

Supervisor District: 3

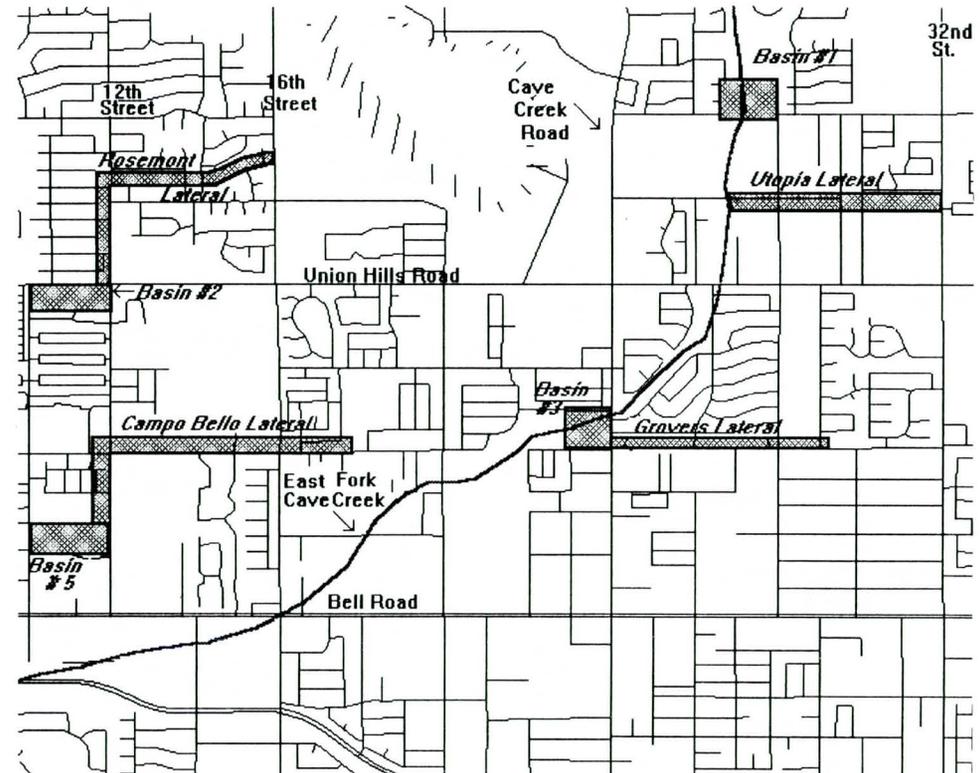
Township/Range: T4N R3E; T3N R3E

**Project Name: Grovers Avenue Lateral**

Grovers Avenue Lateral begins at 30th Way and Grovers Avenue and heads west along Grovers Avenue to Cave Creek Road where it outfalls into Detention Basin #3. The lateral ranges in size from a 42" diameter concrete pipe to an 8' x 8' concrete box culvert. The lateral is approximately 4300 linear feet with an estimated construction cost of \$1.3 million.

**Project Name: Campo Bello Drive Lateral**

Campo Bello Drive Lateral begins at 18th Street and Grovers Avenue and heads west along Grovers Avenue to 12th Street. At 12th Street, Campo Bello Drive Lateral heads south to Campo Bello Drive where it will outfall into Detention Basin #5. The lateral ranges in size from a 84" to an 108" diameter concrete pipe. The lateral is approximately 4700 linear feet with an estimated construction cost of \$2.5 million, of which approximately \$1 million has previously been expended.



**WHITE TANKS ADMP**

Activity Code: P6A470

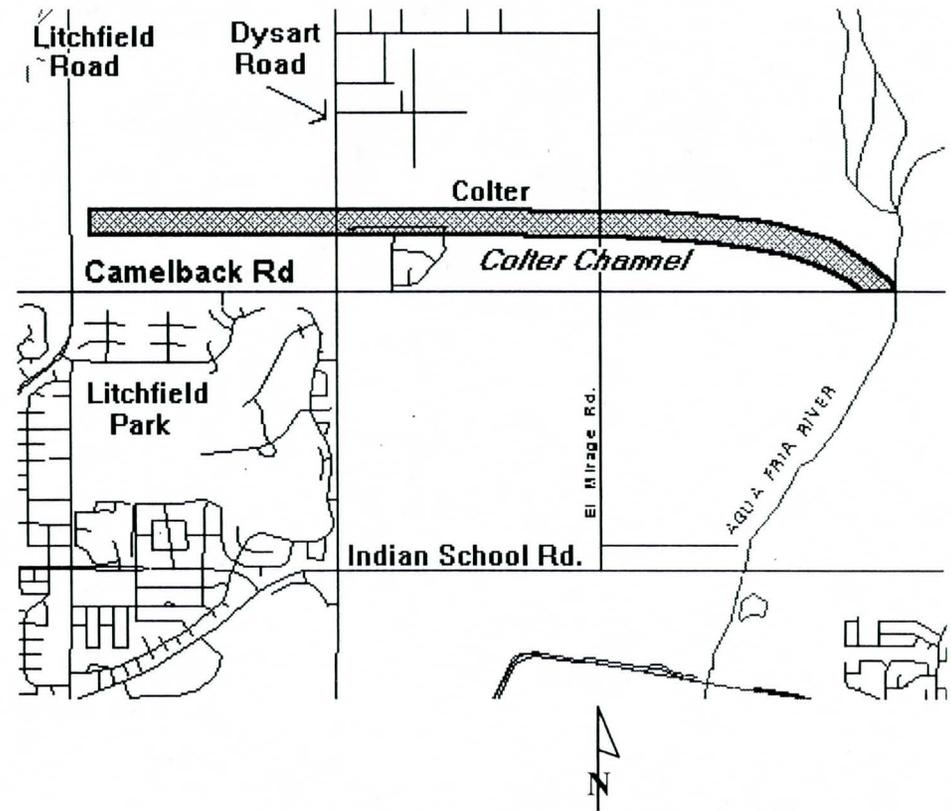
Supervisor District: 4, 5

Township/Range: T2N R1W S13-15

**Project Name: Colter Channel**

The project is located north of Litchfield Park and extends from Litchfield Road to the Agua Fria River along an alignment about one-quarter mile north of Camelback Road. The principal feature is a 14,000 foot long earthen channel that varies from 50 feet to 250 feet wide. The project will intercept and convey to the river the 100-year storm flows from north of the channel, thereby providing protection to the MCDOT improvements on Camelback and Dysart Roads and to Litchfield Park and the surrounding community. The project will eliminate a portion of an "A" Zone floodplain, removing about 20 homes from the floodplain.

The total project was completed in October 1994 at a total cost of \$2.94 million, which was shared between the District and MCDOT. The District will operate and maintain the project.



**WHITE TANKS ADMP (continued)**

Activity Code: P6A470

Supervisor District: 5

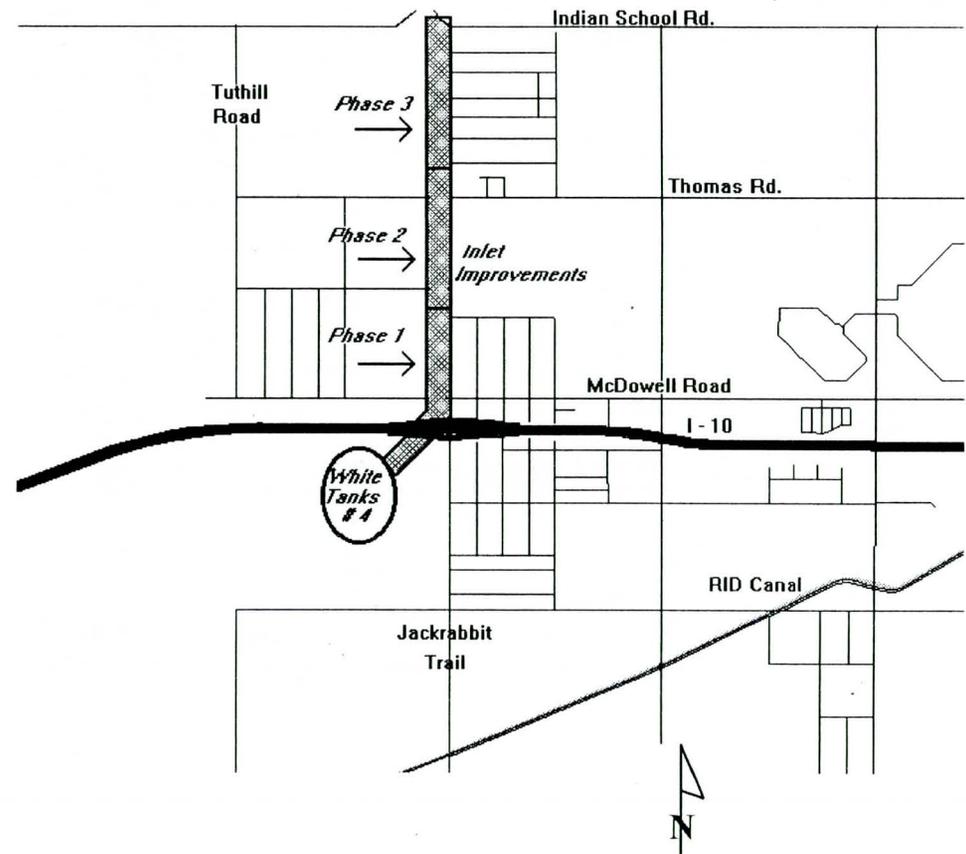
Township/Range: T2N R2W S32; T1N R2W S5

**Project Name: White Tanks #4 Inlet Improvements**

This project includes the construction of a channel along the west right-of-way line of Jackrabbit Road from the White Tanks #4 Flood Retarding Structure (FRS) northward. The Channel will intercept stormwater runoff flowing in a southeasterly direction and convey it into the FRS.

Construction is proposed to be completed in phases, depending on the availability of CIP funding. Phase I is from the FRS northward to approximately 1,200 feet north of McDowell Road and will be a concrete-lined channel (design is complete) estimated to cost \$1.53 million. Phase II will continue the project to approximately 1000 feet north of Thomas Road, and Phase III will extend to the north side of Indian School Road.

The Channel is necessary to intercept flows and divert them into the FRS as intended by the original Soil Conservation Service design. The construction of Interstate 10 and improvements to Jackrabbit Road have disrupted the original drainage paths in the area.



**WHITE TANKS ADMP (continued)**

Activity Code: P6A470

Supervisor District: 4

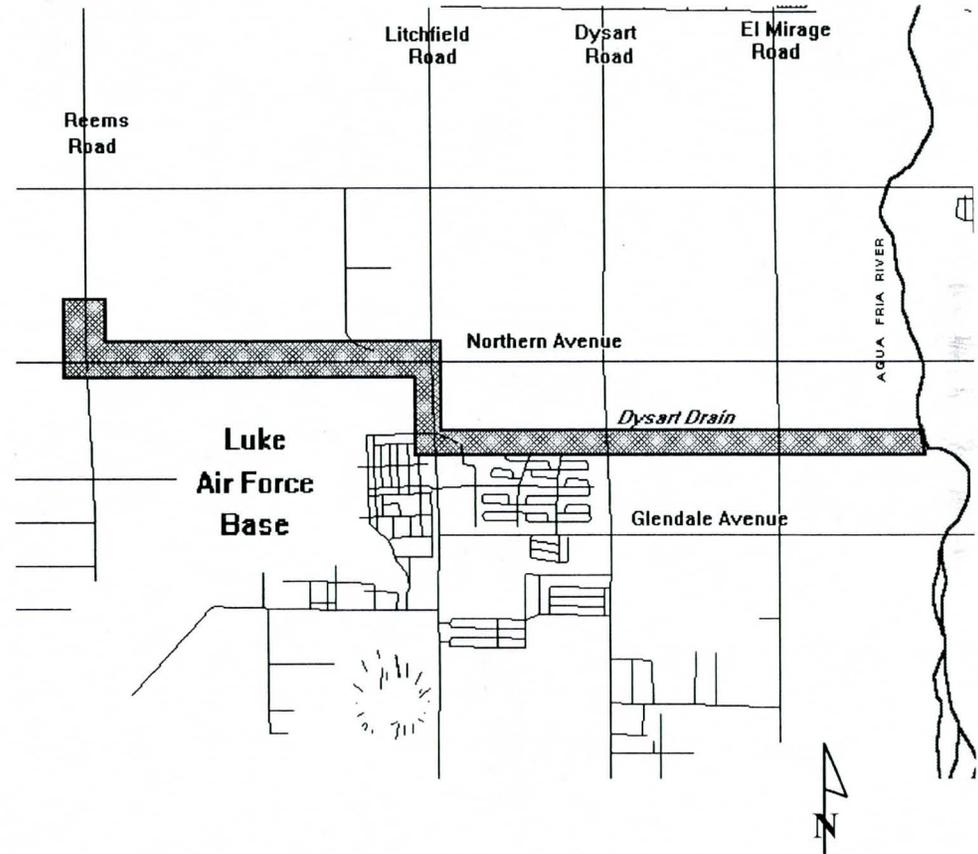
Township/Range: T3N R1W S32; T2N R1W S1-5

**Project Name: Dysart Drain/Reems Road Connector**

The project extends from Reems Road to the Agua Fria River along the north side of Luke Air Force Base (LAFB).

Included are improvements to the existing channel and construction of a detention basin northwest of LAFB. The existing Dysart Drain channel no longer functions as designed because of land subsidence in the area, thereby causing the flooding of LAFB from relatively minor flows. The project will intercept and convey to the river the 100-year storm flows from north of LAFB.

The estimated total project cost is \$15 million to be shared between the District and LAFB, with the LAFB cost share capped at \$6 million. LAFB will provide all operation and maintenance, with the exception of one collector channel feature.



**WHITE TANKS ADMP (continued)**

Activity Code: P6A470

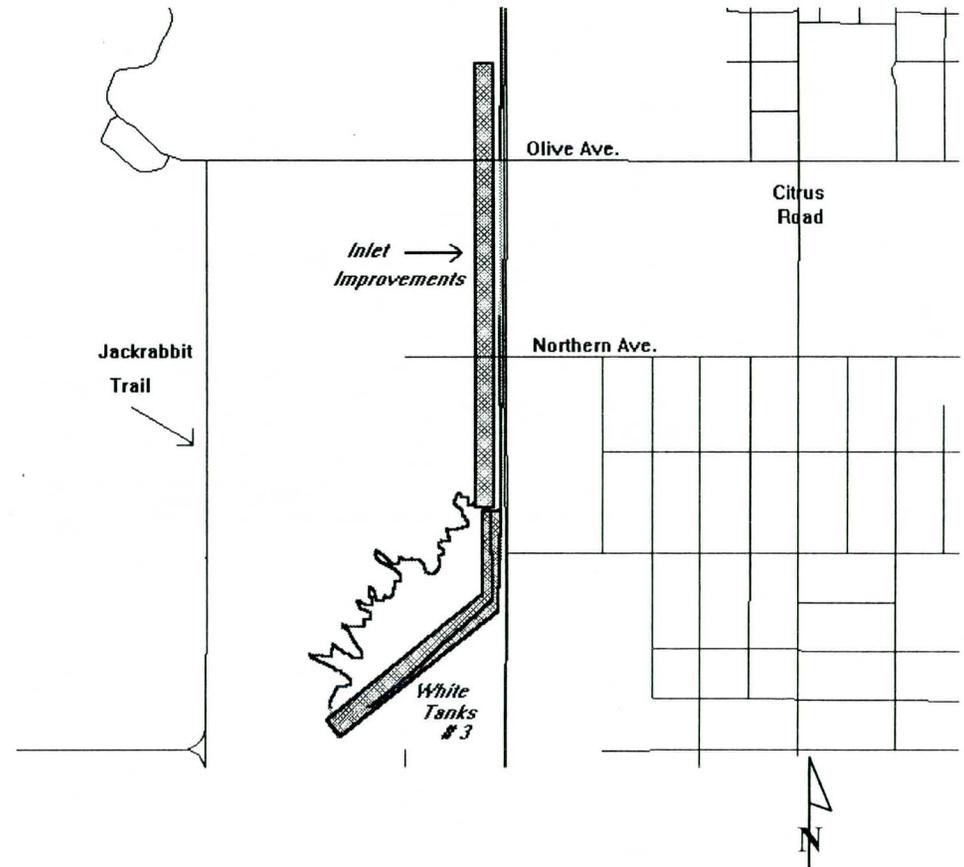
Supervisor District: 4

Township/Range: T3N R2W S28, 33; T2N R2W S4

**Project Name: White Tanks #3 Inlet Improvements**

This project includes a 100-year channel along Beardsley Canal Wash from the White Tanks #3 FRS to 2000' north of Olive Avenue. The project will eliminate canal overtopping and provide flooding relief for a small area of single family homes and commercial properties. The project will also prevent future washouts of the Olive Avenue and Northern Avenue crossings and is an element of the White Tanks/Agua Fria ADMS.

Cost is estimated at \$4.1 million, with 100% by the District. Future operations and maintenance will be provided by the District. Staff is currently exploring the option of joint use of right-of-way with the Maricopa Water Conservation District. The design schedule calls for final construction documents to be completed by May 1995.



**WHITE TANKS ADMP (continued)**

Activity Code: P6A470

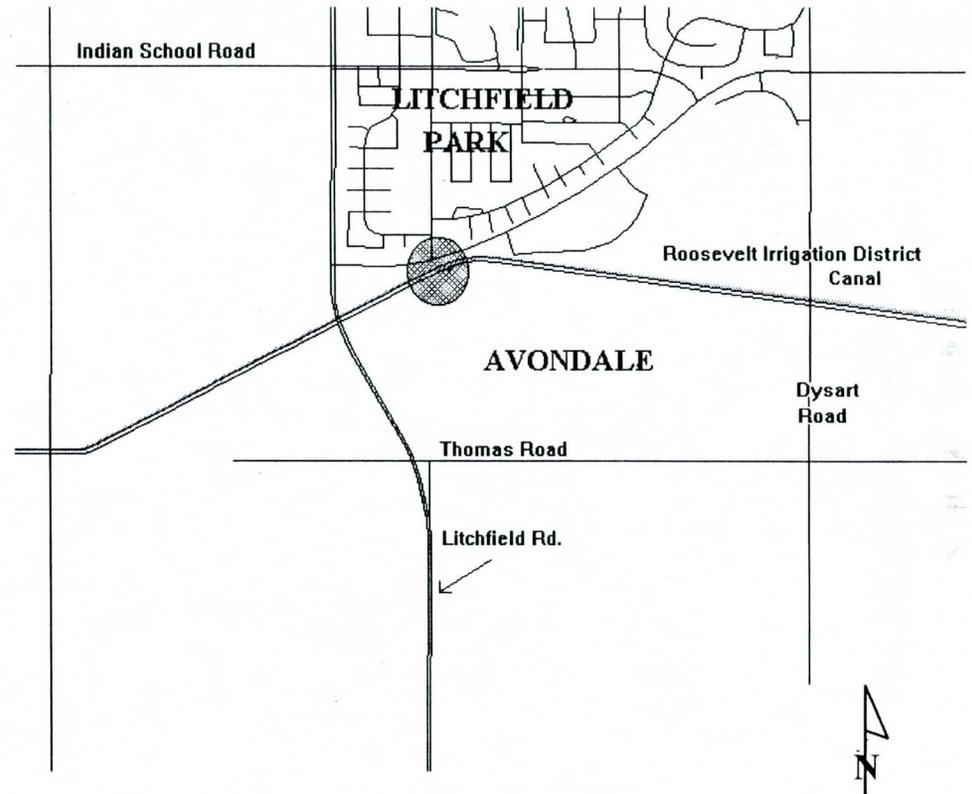
Supervisor District: 4

Township/Range: T2N R1W S27

**Project Name: RID Canal Overchute**

This project includes a 100-year overchute (1100 cfs) of the Roosevelt Irrigation District Canal at the Old Litchfield Rd. alignment. An existing outfall channel completed by SunCor is in place south of the canal. The project will provide an outfall for 1.6 square miles of existing development in Litchfield Park, Avondale and Goodyear and is a key element of the White Tanks/Agua Fria ADMS and the Litchfield Master Drainage Plan. - The overchute will reduce/eliminate floodplain delineations in developed areas of Litchfield Park and Avondale.

Total costs for the project are estimated at \$535,000 (100% District). The design of the project has been initiated at a cost of \$86,000. The City and SunCor have invested \$220,000 in the related side drainage and outfall channel. Litchfield Park will provide future operations and maintenance.



**WHITE TANKS ADMP (continued)**

Activity Code: P6A470

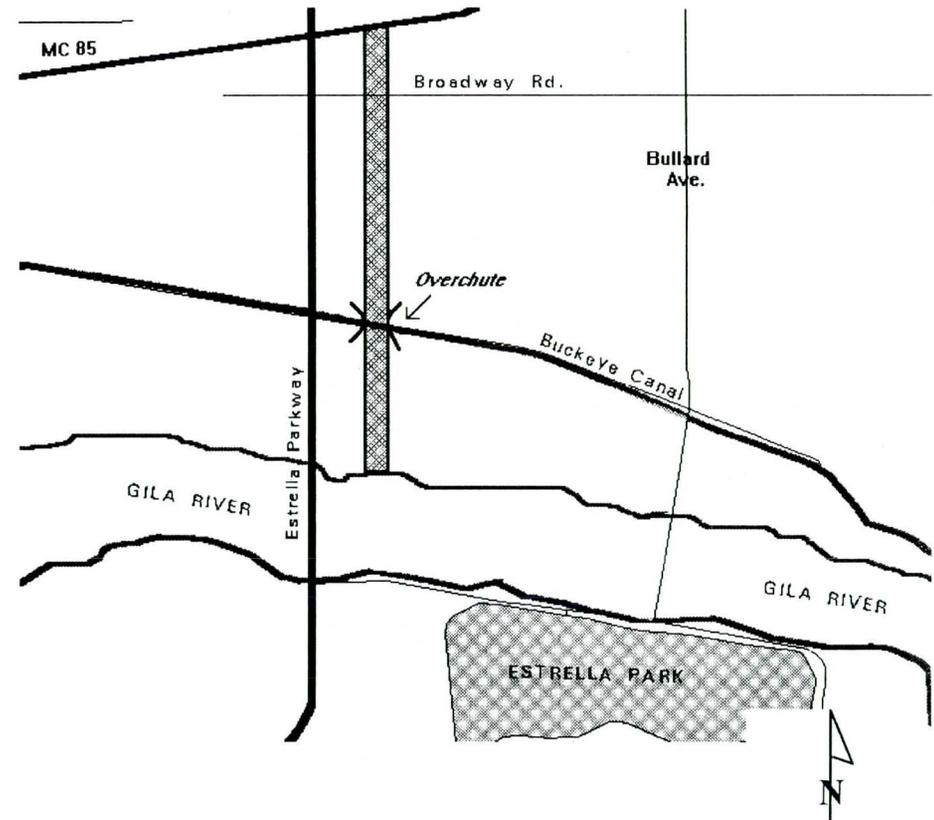
Supervisor District: 4

Township/Range: T1N R1W S20, 29

**Project Name: Bullard Wash Overchute of BID Canal**

This project, which is based on the White Tanks/Agua Fria ADMS, includes a minimum 100-year overchute/1-mile outfall channel (4000 cfs) at the Buckeye Irrigation District canal 1/4 mile east of Estrella Parkway. Approximately \$10 million of Goodyear's infrastructure, including the City's wastewater treatment plant, and several hundred acres of farmland are currently at risk in the project area due to ponding along the north side of the canal. The only existing outfall to the Gila River for Bullard Wash, other than the canal itself, is a single 42" pipe. The City has designated the channel corridor as multi-use open space.

Total costs for the project are estimated at \$2.96 million (100% District). A pre-design study (\$122,000) has been initiated to identify a recommended alternative. Future operations and maintenance is to be provided by the City of Goodyear.



**QUEEN CREEK ADMP**

Activity Code: P6A480

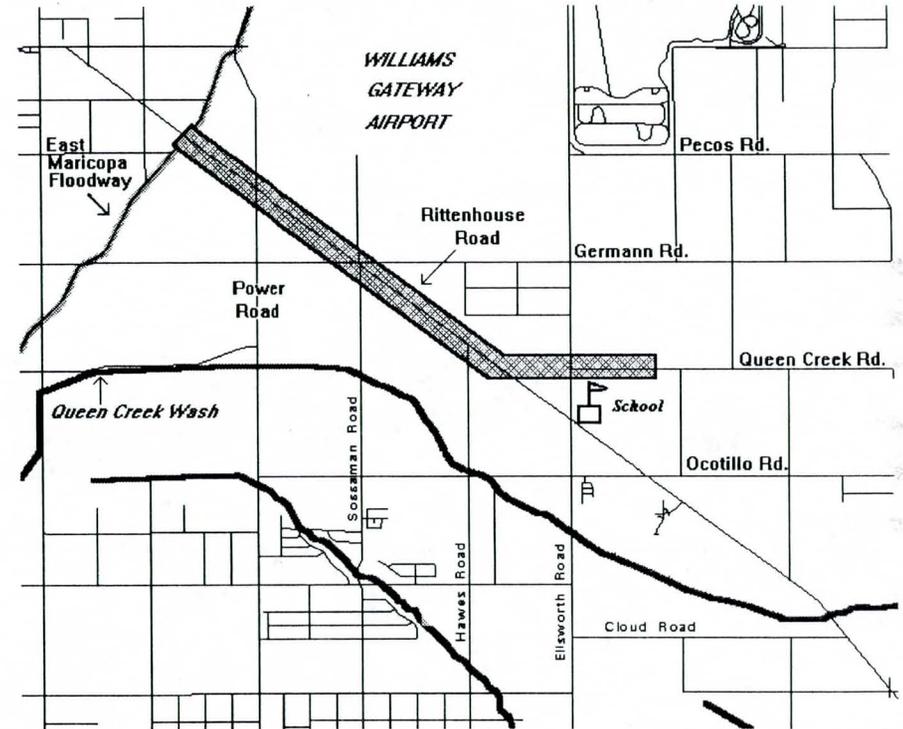
Supervisor District: 1

Township/Range: T1S R6E S36; T2S R6E S1; T2S R7E S6,  
8-9, 15

**Project Name: Rittenhouse Drainage Improvement Project**

The project consists of an earthen channel on the northeast side of the Southern Pacific Railroad right-of-way between the Queen Creek School east of Ellsworth Road and Queen Creek Roads and the East Maricopa Floodway west of Power Road, a distance of approximately 6 miles. The channel will provide 100-yr. protection for the school and will contain the FEMA 100-yr. floodplain. New crossings will be necessary at existing roadways.

In accordance with an IGA, the Town of Queen Creek is responsible for rights-of-way acquisition. Total construction costs are estimated at \$5 million (100% District).



## GILBERT/CHANDLER ADMP

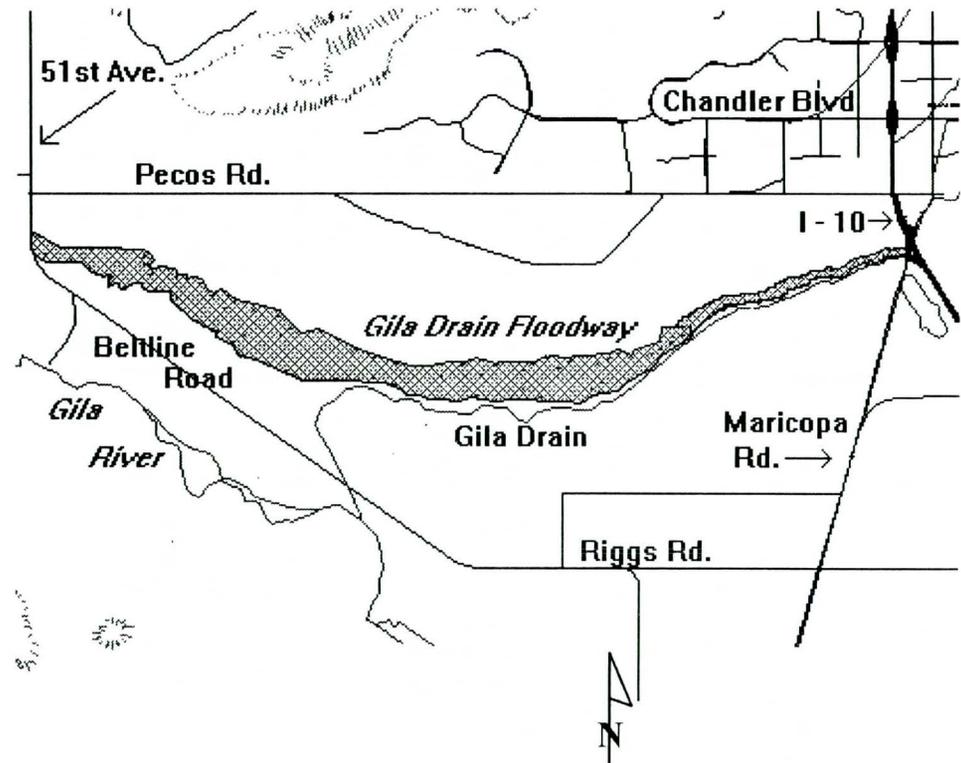
Activity Code: P6A490

Supervisor District: 5          T/R: T2S R4E S5-6

### Project Name: Gila Drain Floodway

The Gila Drain Floodway is located on the Gila River Indian Community (GRIC) in a historical floodplain (width 1400-2800') north and adjacent to the Gila Drain. The floodway, which is approximately 12 miles long and flows westerly from Maricopa Road to the Gila River near 51st Avenue, will be the outfall for the Southeast Valley Regional Drainage System, conveying flows from an ADOT channel near Maricopa Road. The 100-year floodway capacity will vary from 1800-5600 cfs. ADOT has agreed to improve the eastern 3 miles of the floodplain into an earthen channel with in-line basins.

The District is funding a Phase II study, *Multi-Purpose Development of the Gila Drain Floodway*, to be conducted by ASU during 1994-95. The study will assess the growth and survivability of various native plants under varying cultivation and watering conditions. If successful, the study may lead to the development of a non-structural project, covering the western 9 miles of the floodplain, that would include re-forestation of the area, enhanced ground water recharge and quality, and economic development opportunities.



**GILBERT/CHANDLER ADMP (continued)**

Activity Code: P6A490

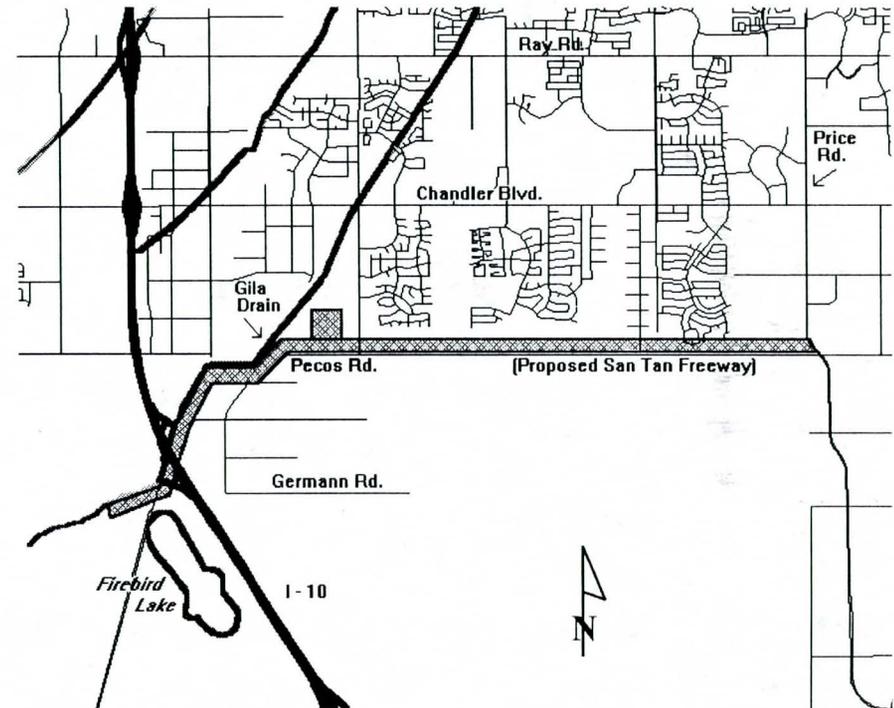
Supervisor District: 1, 5

Township/Range: T1S R4E S33-36; T2S R4E S4-6

**Project Name: Southeast Valley Regional Drainage System**

The Southeast Valley Regional Drainage System (SEVRDS) includes a 100-year drainage system (900 to 2800 cfs) to be built within the Santan Freeway corridor between Price Rd. (E) and 56th St. (W) and a connecting channel from the basin near 56th St. to the Gila Drain Floodway west of I-10. When combined with contributing flows from the Price Freeway drainage system (south of Ray Road), the SEVRDS will intercept and convey municipal and freeway drainage from 58 square miles in Chandler, Tempe, Gilbert and Maricopa County (13,000 existing (1993) and 20,000 future homes). The project will also protect areas of the GRIC located south of Pecos Road and west of Price Road from off-site flows.

The SEVRDS is addressed in the Gilbert/Chandler ADMS and is an integral component of Chandler's stormwater master plan. Total cost is estimated at \$23.8 million, excluding 2 miles of ADOT rights of way. The District's cost share is estimated at \$10.4 million. Chandler will provide interim O&M until the freeway is constructed by ADOT.



**ACDC ADMP**

Activity Code: P6A580

Supervisor District: 3

Township/Range: T3N R3E S28, 33

**Project Name: 10th Street Wash Basins/Channel Study**

10th Street Wash originates in the North Mountain Preserve and has a drainage area that encompasses 2.8 square miles.

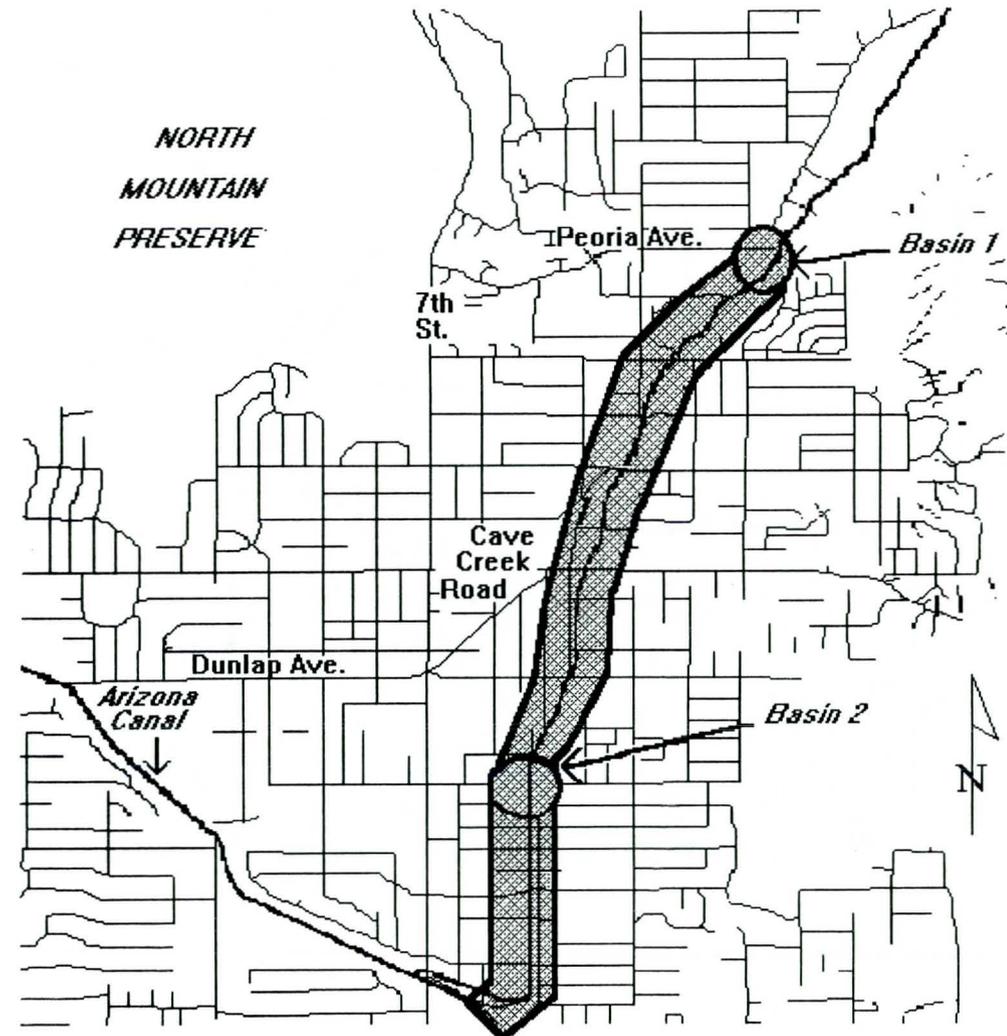
The wash flows in a southerly direction through a developed urban area in the Sunnyslope portion of Phoenix.

Approximately 575 buildings (294 acres) are located within the delineated 100-year floodplain. The project has been separated into two phases. Phase I includes the design, rights-of-way acquisition, and construction of two detention basins that will reduce the floodplain approximately 50-60% and preparation of a Feasibility Study to develop alternative channel improvements that will remove the remaining floodplain.

Phase II is the implementation of the preferred channel improvements identified in the Feasibility Study.

Total Phase I costs are estimated at \$6 million (100% District).

The District is working with local residents and the City to develop locally maintained, mixed-use applications within the basins. Cost estimates for Phase II will be developed during the Feasibility Study.



**ACDC ADMP (Continued)**

Activity Code: P6A580

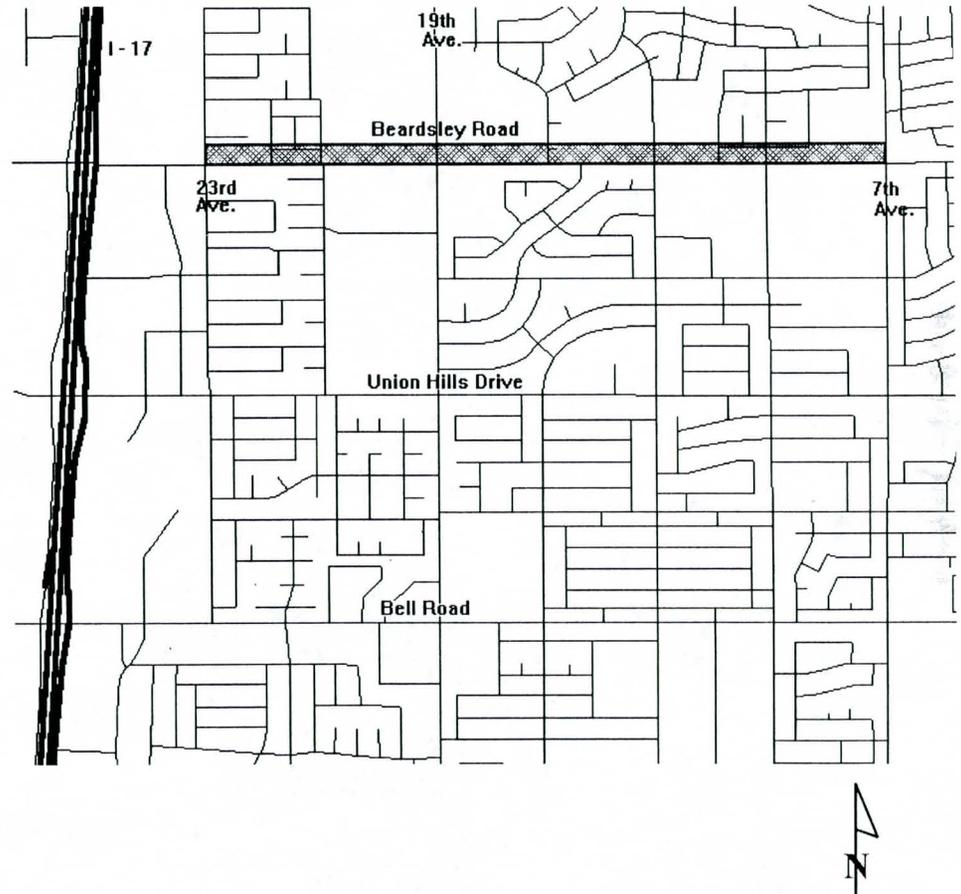
Supervisor District: 3

Township/Range: T4N R2E S24; T4N R3E S19-20

**Project Name: Beardsley Rd. Regional Drainage - Phase I**

This project includes a 100-year channel (2,800 cfs) and basins to intercept the southerly flows along Beardsley Rd./Loop 101 from 7th Avenue downstream to 23rd Avenue. The project will direct the flows westerly to outfall into an existing ADOT drainage system. Flood protection will be improved for a 4-square mile area containing over 1100 homes and commercial and public buildings. The project will route flows through basins, improving water quality and groundwater recharge potential.

The cost for the entire project is estimated at \$6.44 million (\$5.9 million by the District). The District will provide construction management, ADOT will provide contract plans and specifications, and the City of Phoenix will provide operations & maintenance. Construction of the project will start in November 1994 and be completed by November 1995.



**ACDC ADMP (Continued)**

Activity Code: P6A580

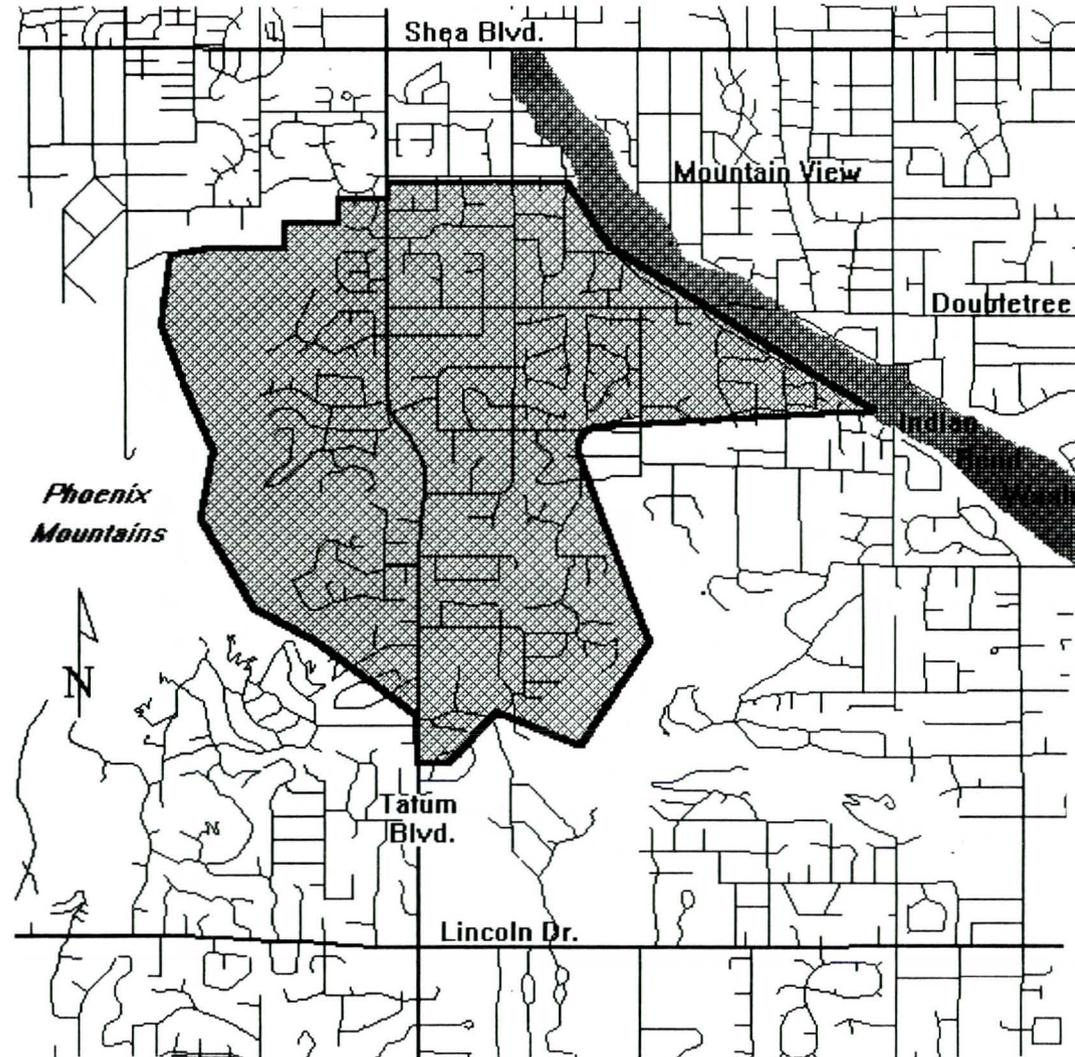
Supervisor District: 2

Township/Range: T3N R4E S28-29, 32-33

**Project Name: Doubletree Ranch Road Improvements**

This project includes 10-year minimum protection for a fully-developed watershed in Paradise Valley which flows northeast from the Phoenix Mountain Preserve to Indian Bend Wash (100-year flow = 2700 cfs). Presently, a grade school is virtually inaccessible during heavy rains, and a number of homes near Indian Bend Wash, the project's outfall, have experienced severe flooding in recent years. The project will be combined with roadway improvements to Doubletree Ranch Road.

Total costs for the project are estimated at \$10.5 million. Pre-design study costs are estimated at \$300,000 (100% District). Design of preferred alternatives is estimated at \$250,000 (100% District). Funding for land and construction costs is to be determined by future Intergovernmental Agreement. Paradise Valley will provide O&M for this project.



**ACDC ADMP (Continued)**

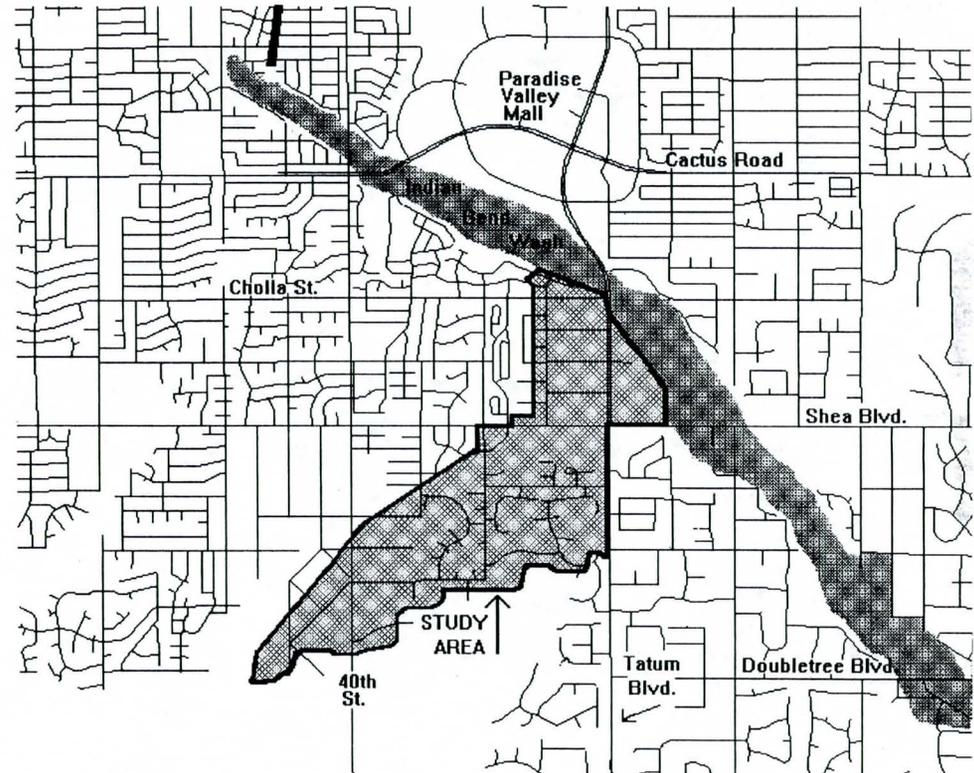
Activity Code: P6A580

Supervisor District: 2, 3

T/R: T3N R3E S24-25, 36; T3N R4E S19-20, 29-30

**Project Name: Tatum Wash Channel & Basin (46th St./Shea)**

A 3-square mile watershed, which extends from the Phoenix Mountain Preserve northeast to Indian Bend Wash (IBW) near the Shea Boulevard/Tatum Boulevard intersection, generates approximately 2000 cfs during the 100-year event and causes 500 acres of fully developed residential and commercial property to be flooded. Historically, thunderstorms have caused flooding in the area, to the point where relatively minor storms generate enough water to flood houses along Cholla Street. A system of detention basins and channels extending from the Mountain Preserve to Indian Bend Wash will provide 100-year protection to 350+ structures in the project area. The project will improve flood protection throughout the downstream reaches of the previously-constructed IBW project. An additional benefit of this project will be to lessen roadway flooding on Shea and Tatum Boulevards, two very heavily traveled arterial streets. Total costs are estimated at \$10 million. Majority funding by the District is currently assumed and O&M responsibilities remain undefined.



## CAVE CREEK WASH IMPROVEMENTS

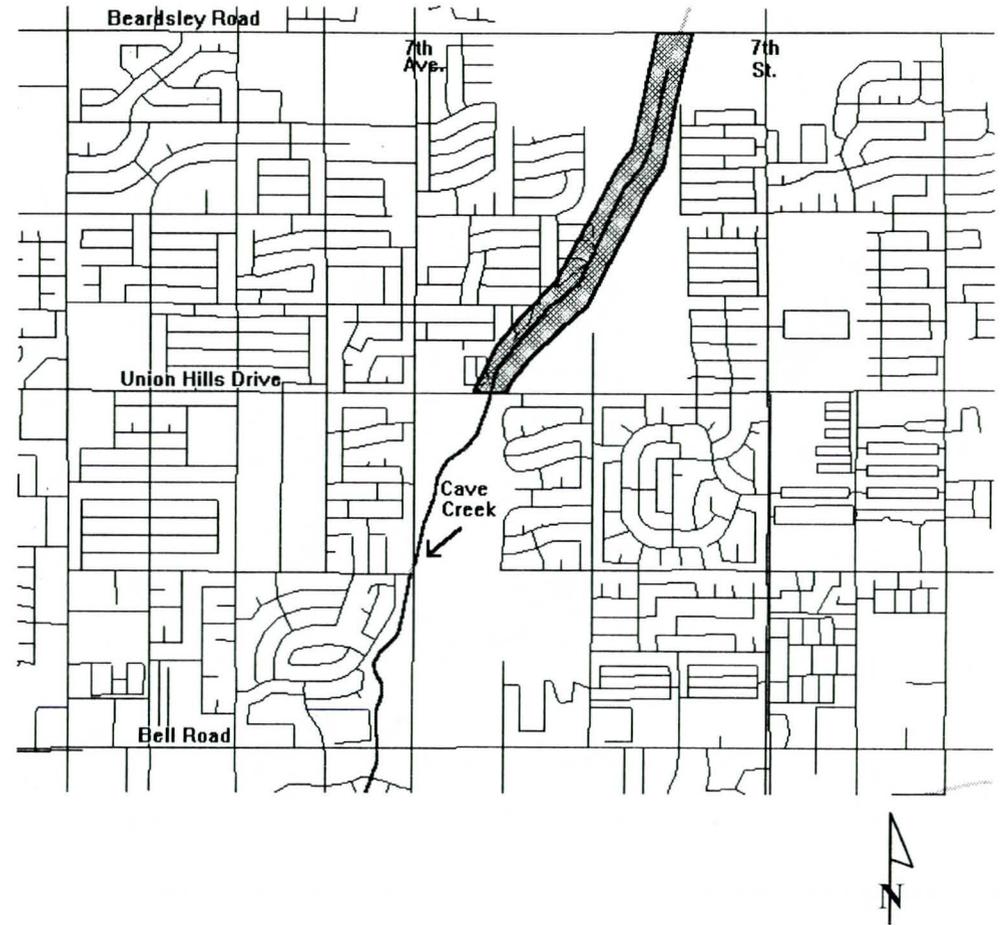
Activity Code: 6A600

Supervisor District: 3

Township/Range: T4N R3E S29, 32

### Project Name: Cave Creek Wash Improvements

Cave Creek is a natural wash that begins in the New River Mountains. It flows southwest toward Cave Buttes Dam, which controls 191 square miles of drainage area. Principal discharges from Cave Buttes Dam are released back into Cave Creek where they flow to the ACDC project. As part of the 221 Agreement with the Federal Government, the District is to "...take whatever action is necessary to manage and maintain the designated floodways ... so as to assure the unobstructed passage of floodwaters of the 100-year floods." The District proposes to cost-share the Cave Creek Wash Improvements with the City of Phoenix between Beardsley Road and Bell Road. The District will pay for the design and construction of Reach 1, Beardsley Road to Union Hills Drive. The City will pay for the design and construction of Reach 2, Union Hills Drive to Bell Road, and the land acquisitions for both reaches. It is anticipated that the District will operate and maintain both reaches after completion. The estimated cost to the District for Reach 1 is \$4.2 million.



**MARYVALE ADMP**

Activity Code: P6A620

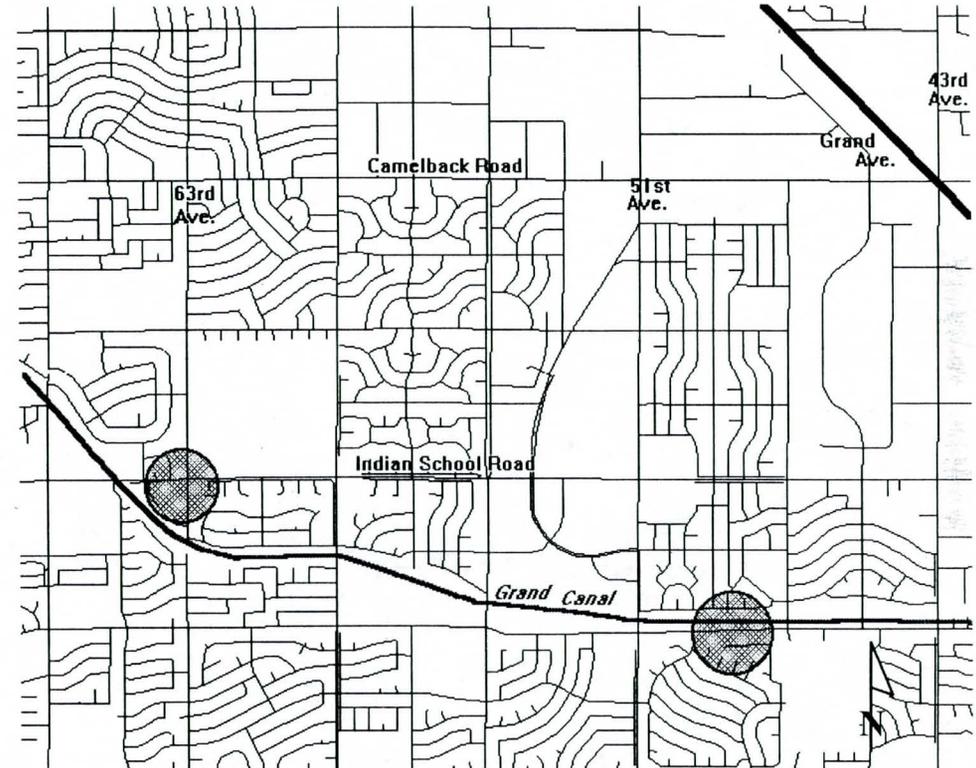
Supervisor District: 5

Township/Range: T2N R2E

**Project Name: Maryvale Flooding Mitigation Project**

The City of Phoenix requested inclusion of a series of detention basins upstream of the Grand Canal, which blocks overland flow, in the District 5-Year CIP. The City's request encompasses an area of approximately 7 square miles which contains over 3200 homes and businesses.

The current CIP project addresses the flooding problems at 2 locations that lie within the Maryvale ADMS boundary. A pre-design study is scheduled to begin in 1994-95, with design of the 2 basins to commence in 1996-97. Costs for pre-design and design activities are estimated at \$600,000 (100% District). Construction costs and O&M responsibilities remain undefined. The basins may be used in future park developments.



**UIBW ADMP**

Activity Code: P6A680

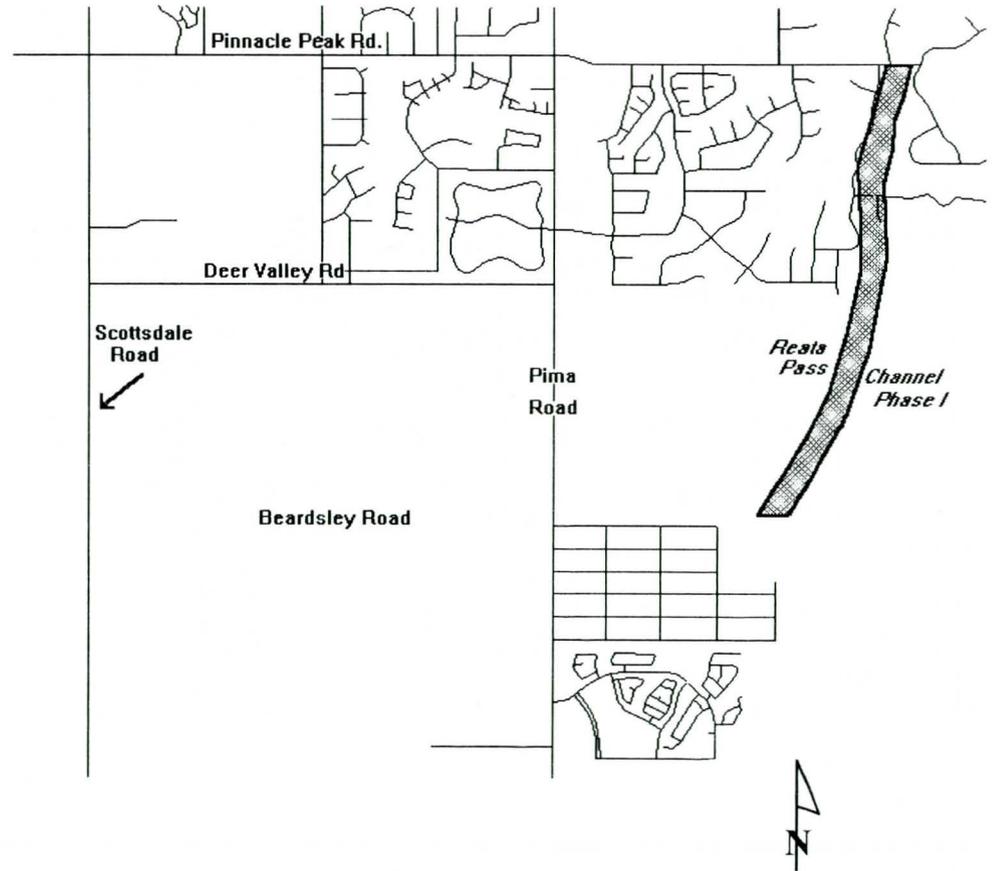
Supervisor District: 2

Township/Range: T4N R5E S8, 17, 20, 29

**Project Name: Reata Pass Channel - Phase I**

This project includes a 100-year channel (11,500 cfs) between Pinnacle Peak Road and Beardsley Road that will protect 750 homes and 760 multi-family units from flows 1-3' deep. The project is a major component of the UIBW ADMP and will allow for future removal of 8.5 square miles of 100-year floodplain. Flows will be conveyed into regional detention basins, allowing for potential recharge and water quality enhancements. The channel will preserve existing vegetation, where feasible, and serve as a future recreational corridor connecting the Westworld area with the McDowell Mountains. The Reata Pass channel also reduces drainage requirements along the Pima Road and Loop 101 corridors.

Total costs for the project are estimated at \$6.2 million, with 50% by the District. Scottsdale will provide future operations and maintenance of the constructed features.



**UIBW ADMP (continued)**

Activity Code: P6A680

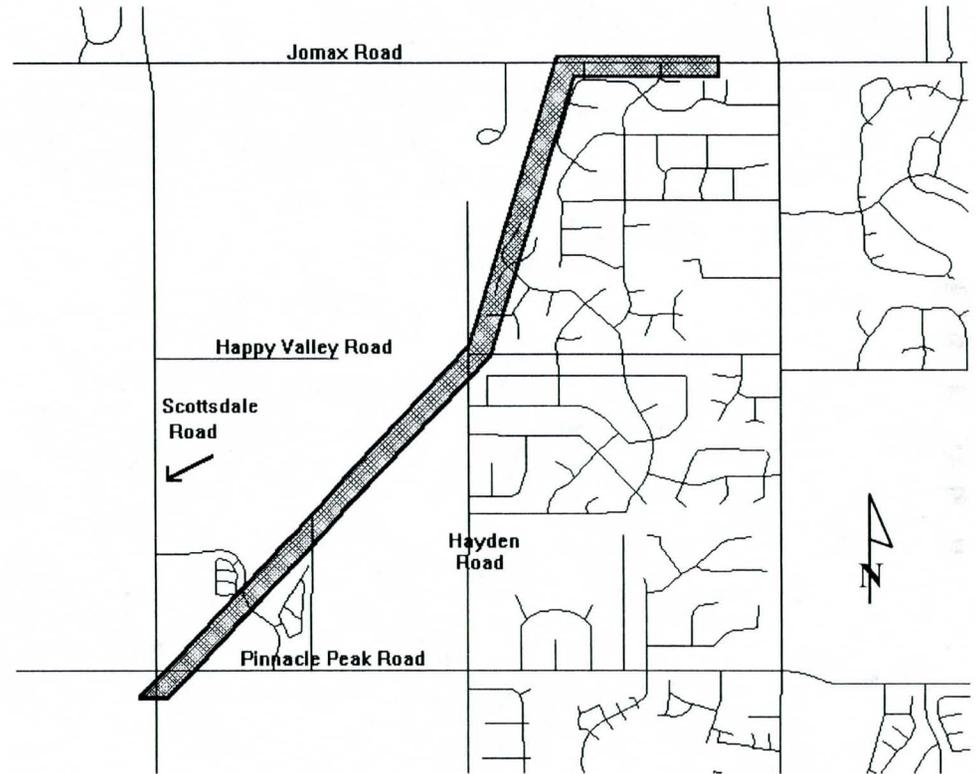
Supervisor District: 2

Township/Range: T4N R4E S1-2, 11, 14

**Project Name: Rawhide Wash Channel - Phase I**

This project includes a 100-year channel (11,000 cfs) between Jomax Road and Pinnacle Peak Road that will protect 460 homes, 25 commercial structures and a 160-acre theme park from flows 1-3' deep. The project is a major component of the UIBW ADMP and will allow for future removal of 4.5 square miles of 100-year floodplain in Scottsdale and 6.1 square miles in Phoenix. Flows will be conveyed into regional detention basins allowing for potential recharge and water quality enhancements. The channel will preserve existing vegetation, where feasible, and serve as a future recreational corridor.

Total costs for the project are estimated at \$6.6 million, with 50% by the District. Scottsdale will provide future operations and maintenance of the constructed features.



**UIBW ADMP (continued)**

Activity Code: P6A680

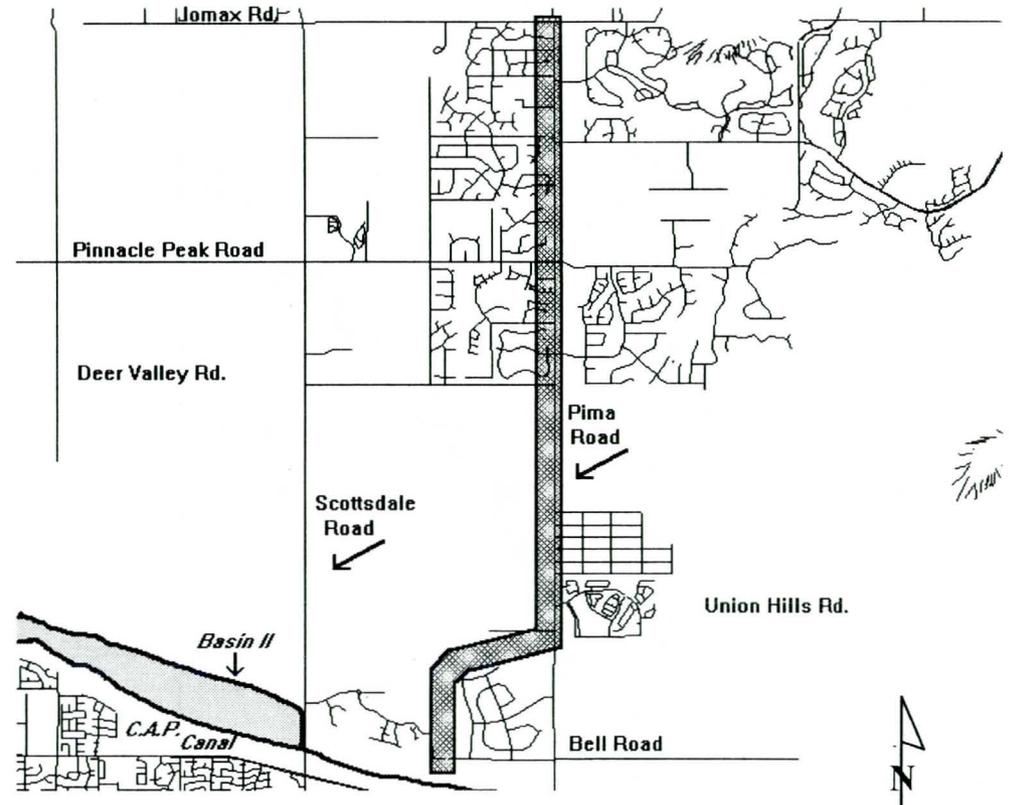
Supervisor District: 2

T/R: T4N R4E S24-25, 36; T4N R5E S6-7, 18-19

**Project Name: Pima Road Channel**

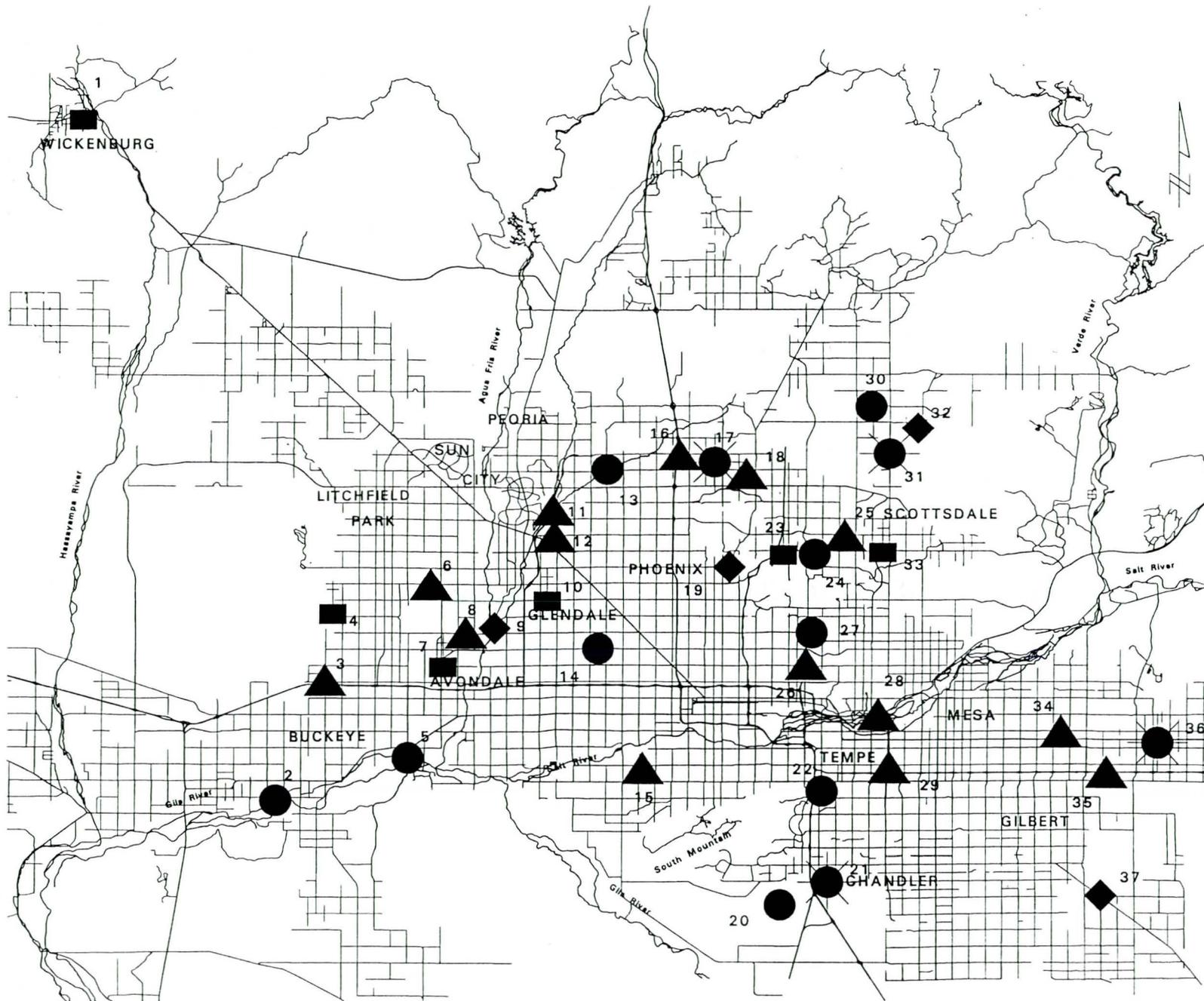
This project includes a 100-year channel (6,100 cfs) between Jomax Road and Bell Road that will protect 1250 homes, 40 commercial structures and a water treatment plant from flows < 1' deep originating in a watershed of 7 square miles. The project is a major component of the UIBW ADMP. Flows will be conveyed into regional detention basins allowing for potential recharge and water quality enhancements. The channel will preserve existing vegetation, where feasible, and serve as a future recreational corridor. The channel also reduces drainage requirements along the Pima Road and Loop 101 corridors.

Total costs for the project are estimated at \$18.3 million, with 50% by the District. Scottsdale will provide future operations and maintenance of the constructed features.



**Appendix C: Summary Map of Major CIP Projects**

# Status of Major C.I.P. Projects



## Project Index

1. Casandro Wash Projects
2. Salt-Gila River Study
3. White Tanks 4 Inlet
4. White Tanks 3 Improvement
5. Bullard Wash Overchute
6. Dysart Drain Connector
7. RID Canal Overchute
8. Colter Channel
9. Agua Fria Easements
10. Northern/Orangewood Drain
11. Desert Harbor Drop Structure
12. Cactus Rd. Storm Drain
13. Skunk Creek Improvements
14. Maryvale Flood Mitigation
15. Maricopa Drain
16. Beardsley Rd. Drainage
17. Cave Creek Improvements
18. East Fork Cave Creek
19. 10th Street Wash Basin/Chan.
20. Gila Drain Improvements
21. Southeast Valley Regional Dr.
22. Town of Guadalupe
23. Tatum Wash Channel/Basin
24. Doubletree Ranch Rd. Imp.
25. Cactus Rd. Flood Control Str.
26. Old Cross Cut Canal
27. Arcadia Drainage Project
28. Salt River Channel
29. Price Road Drain
30. Rawhide Wash Channel
31. Pima Road Channel
32. Reata Pass Channel
33. 84th Street and Cholla Project
34. University Dr. Storm Drain
35. Sossaman Channel
36. East Apache Trail at C.A.P.
37. Rittenhouse Road Drainage

## Status

-  Construction
-  Study
-  Land Acquisition
-  Design
-  Planned

**Appendix D: Status Report on FY 94/95 Prioritization Procedure**

Future CIP Project List (w/Status Report as of 10/25/94)									
Project Name	City/Town	*Total Cost	*FCD Cost	Score	Status				
					Pre-design	IGA	Design	Const.	
<b>Group A (see Legend):</b>									
1 Beardsley Rd. RDS - Phase I	Phoenix/ADOT	\$12,500,000	\$5,900,000	78	Complete	Yes	Complete	Initiated	
2 Dysart Drain	Glendale/U.C.	\$15,000,000	\$9,000,000	77	Complete	Yes	Complete	Initiated	
3 Casandro Wash Dam	Wickenburg	\$4,000,000	\$4,000,000	73	Complete	Yes	Initiated	No	
4 10th St. Wash Basin & Channel	Phoenix	\$6,000,000	\$6,000,000	69	Init. - Chan.	Not req'd	Init. - Basin	No	
5 Grovers Ave. Lateral	Phoenix	\$1,300,000	\$1,300,000	66	Complete	Yes	Initiated	No	
6 Rittenhouse Drainage Improvements	Queen Creek	\$4,800,000	\$4,800,000	66	Complete	Yes	Initiated	No	
7 Utopia Rd. Lateral	Phoenix	\$1,000,000	\$1,000,000	66	Complete	Yes	Initiated	No	
8 Campo Bello Dr. Lateral	Phoenix	\$2,500,000	\$2,500,000	65	Complete	Yes	Initiated	No	
9 Rosemont Dr. Lateral	Phoenix	\$1,400,000	\$1,400,000	65	Complete	Yes	Yes	No	
10 Salt River Channel (McClintock to Price)	Tempe	\$13,500,000	\$11,000,000	65	Complete	Yes	Initiated	No	
11 Northern/Orangewood Storm Drain	Glendale/Peoria	\$16,500,000	\$8,250,000	63	Complete	Yes	Initiated	No	
12 Sossaman Channel & Basin	Mesa/U.C.	\$1,070,000	\$1,070,000	60	Complete	Not req'd	Complete	Initiated	
13 Desert Harbor Drop Structure	Peoria	\$1,950,000	\$1,100,000	59	Complete	Yes	Complete	No	
14 Cactus Rd. Drain	Glendale/Peoria	\$9,000,000	\$4,500,000	58	Complete	Yes	Complete	No	
15 Old Cross Cut Canal	Phoenix	\$26,000,000	\$19,350,000	54	Complete	Yes	Initiated	No	
16 Camelback Ranch Channelization	Phoenix	\$2,500,000	\$2,500,000	53	Complete	Not req'd	Complete	No	
17 White Tanks #4 Improvements - Phase I	Buckeye/U.C.	\$1,530,000	\$1,530,000	50	Complete	Not req'd	Complete	No	
18 White Tanks #3 Improvements	FCD/U.C.	\$4,075,000	\$4,075,000	41	Complete	Not req'd	Initiated	No	
<b>Subtotal Group A</b>		\$124,625,000	\$89,275,000						
<b>Group B (see Legend):</b>									
19 Reata Pass Channel - Phase I	Scottsdale	\$6,200,000	\$3,100,000	78	Initiated	Yes - Land	Initiated	No	
20 SE Valley Regional Drainage System	Chandler	\$23,800,000	\$10,400,000	70	Complete	Initiated	No	No	
21 Arcadia Area Drainage Project	Phoenix	\$12,000,000	\$6,000,000	59	Complete	Initiated	Initiated	No	
22 84th St./Cholla Basin & Storm Drain	Scottsdale	\$1,680,000	\$750,000	66	Complete	Yes	No	No	
<b>Subtotal Group B</b>		\$43,680,000	\$20,250,000						
<b>Group C (see Legend):</b>									
23 Maricopa Drain (43rd Ave./Burgess)	Phoenix/U.C.	\$4,500,000	\$4,500,000	70	Initiated	No	Initiated	No	
24 RID Canal Overchute	Litchfield Park	\$535,000	\$535,000	66	Complete	No	Initiated	No	
25 Cave Creek Basin & Channel	Phoenix	\$4,200,000	\$4,200,000	59	Initiated	No	Initiated	No	
26 Tatum Wash Basin & Channel	Phoenix	\$10,000,000	\$10,000,000	56	Initiated	No	Initiated	No	
<b>Subtotal Group C</b>		\$19,235,000	\$19,235,000						

**Future CIP Project List (w/Status Report as of 10/25/94)**

	Project Name	City/Town	*Total Cost	*FCD Cost	Score	Status			
						Pre-design	IGA	Design	Const.
	<b>Group D (see Legend):</b>								
27	Rawhide Wash Channel - Phase I	Scottsdale	\$6,600,000	\$3,300,000	75	Initiated	No	No	No
28	Bullard Wash Overchute of BID Canal	Goodyear	\$1,500,000	\$750,000	74	Initiated	No	No	No
29	Pima Road Channel	Scottsdale	\$18,300,000	\$9,150,000	72	Initiated	No	No	No
30	Reata Pass Channel - Phase II	Scottsdale	\$11,100,000	\$5,550,000	69	Initiated	No	No	No
31	91st Ave./Union Hills Basin/Channel/Drain	Peoria	\$3,700,000	\$2,500,000	65	Initiated	No	No	No
32	Rawhide Wash Channel - Phase II	Scottsdale	\$1,800,000	\$900,000	65	Initiated	No	No	No
33	Maryvale Flooding Mitigation	Phoenix	\$40,000,000	\$40,000,000	64	Initiated	No	No	No
34	Holly Acres (91st Ave. to Dysart Rd.)	FCD/U.C.	\$40,000,000	\$4,000,000	63	Initiated	No	No	No
35	Skunk Creek Improvements	Peoria/Glen./Phx.	\$2,440,000	\$2,440,000	60	Initiated	No	No	No
36	Town of Guadalupe	Guadalupe	\$700,000	\$700,000	59	Initiated	No	No	No
37	Doubletree Ranch Rd. Improvements	Paradise Valley	\$10,500,000	\$10,500,000	53	Initiated	No	No	No
38	Ellsworth/Germann Collector Channel	Mesa	\$3,000,000	\$3,000,000	51	Initiated	No	No	No
	<b>Subtotal Group D</b>		\$139,640,000	\$82,790,000					
	<b>Group E (see Legend):</b>								
39	48th St./Chandler Blvd. Channel	Phoenix	\$2,000,000	\$2,000,000	63	No	No	No	No
40	Apache Trail at CAP	FCD/U.C.	\$4,000,000	\$4,000,000	53	No	No	No	No
	<b>Subtotal Group E</b>		\$6,000,000	\$6,000,000					
	<b>TOTAL</b>		\$333,180,000	\$217,550,000					

**Legend:**

- Group A - IGA approved or Board-authorized, non-IGA project.
- Group B - IGA negotiations initiated.
- Group C - No IGA negotiations initiated; design partially complete.
- Group D - No IGA negotiations initiated; pre-design study partially complete.
- Group E - No IGA negotiations initiated; no pre-design study initiated.

\* Total cost and FCD cost are estimates submitted in the Project Proposal and may not include in-kind services or dedicated r-o-w.

# Order Form

A 24" x 30" color map which displays the *Status of Major C.I.P. Projects* (Appendix C) is available from the Flood Control District for **\$4.00 per copy**. Please provide your name and address below:

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Mail orders with payment to: Planning & Project Management Division  
Flood Control District of Maricopa County  
2801 West Durango  
Phoenix, Arizona 85009