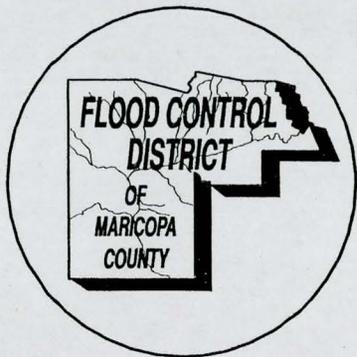


DICK PERREAU

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM
FOR
FISCAL YEARS 1997 TO 2001



Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

Adopted September 4, 1996

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY AGENDA INFORMATION FORM

Action
 Presentation
 Presentation & Action
 Agenda Number

Property of
 Flood Control District of MC Library
 Please Return to
 2801 W. Durango
 Phoenix, AZ 85019

Department: Flood Control District		DEPT(2) FY(2) SEQ(3) TYPE(1) EXTEN(2)
Category: Operations - Infrastructure		C - 69 - 97 - 011 - 8
Contact: Richard Perreault, Manager, Planning Branch	Phone: 4774	Continued from meeting of: <i>Discussed 9/3/96</i>
Return to: Dortha Klahsen	Location: FCD - Contracts	Phone: 4433

Action requested:

Approve the Flood Control District FY 96/97-00/01 5-Year Capital Improvement Program, which is based on a tax rate of \$0.3425 for FY 96/97 and Office of Management and Budget guidance and revenue projections for FY 96/97-00/01. The proposed 5-Year CIP (copy attached) includes projected expenditures of \$143,671,000, exclusive of Force Accounts and indirect charges. The CIP will be funded through the flood control tax and local cost-sharing participation with approximately \$21,733,000 to be reimbursed from cost-share partners. The CIP for FY 96/97-00/01 has been increased cumulatively by a factor of 4.8% per year to allow for increased costs for design, rights-of-way, and construction.

Complete description of requested action:

The Flood Control 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 five-Year CIP includes all costs that have been reviewed through the *Procedure for Identifying and Prioritizing Potential 5-Year CIP Projects*.

The Informal presentation of this Agenda Item will be made by Richard Perreault.

Expenditure Impact by FY's: (Provide detail on Financial Form)

FY 96/97 - \$33,780,000	FY 98/99 - \$32,561,000	FY 00/01 - \$22,358,000
FY 97/98 - \$28,369,000	FY 99/00 - \$26,603,000	
5 - YEAR TOTAL - FY 96/97-00/01 - \$143,671,000		

No financial impact

Routing & Approval (Sign & Date) (Per Responsibility of Signers Guidelines)

1. Dept <i>[Signature]</i> 7-16-96	Date	6. Mat. Mgt N/A	Date
2. CO N/A	Date	7. HR N/A	Date
3.	Date	8. Legal <i>[Signature]</i>	Date 7/17/96
4.	Date	9. OMB <i>[Signature]</i>	Date 7/17/96
5. FEMD N/A	Date	10. CAO <i>[Signature]</i>	Date 8/22/96

Board of Supervisors Action

<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<input type="checkbox"/> Amended as follows:
<i>[Signature]</i>	
Clerk of the Board	Date 9/4/96

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Tom Rawles, District 1

Betsey Bayless, District 3

Ed King, Chair, District 4

Don Stapley, District 2

Mary Rose Garrido Wilcox, District 5

Flood Control Advisory Board

Ron Wheat, Member

Gilbert Rodgers, Member

John E. Miller, Jr., Chair

Samuel K. Wu, P.E., Member

Melvin Martin, Member

Paul Cherrington, P.E., Salt River Project, Ex Officio Member

James Matteson, P.E., City of Phoenix, Ex Officio Member

Principal Staff

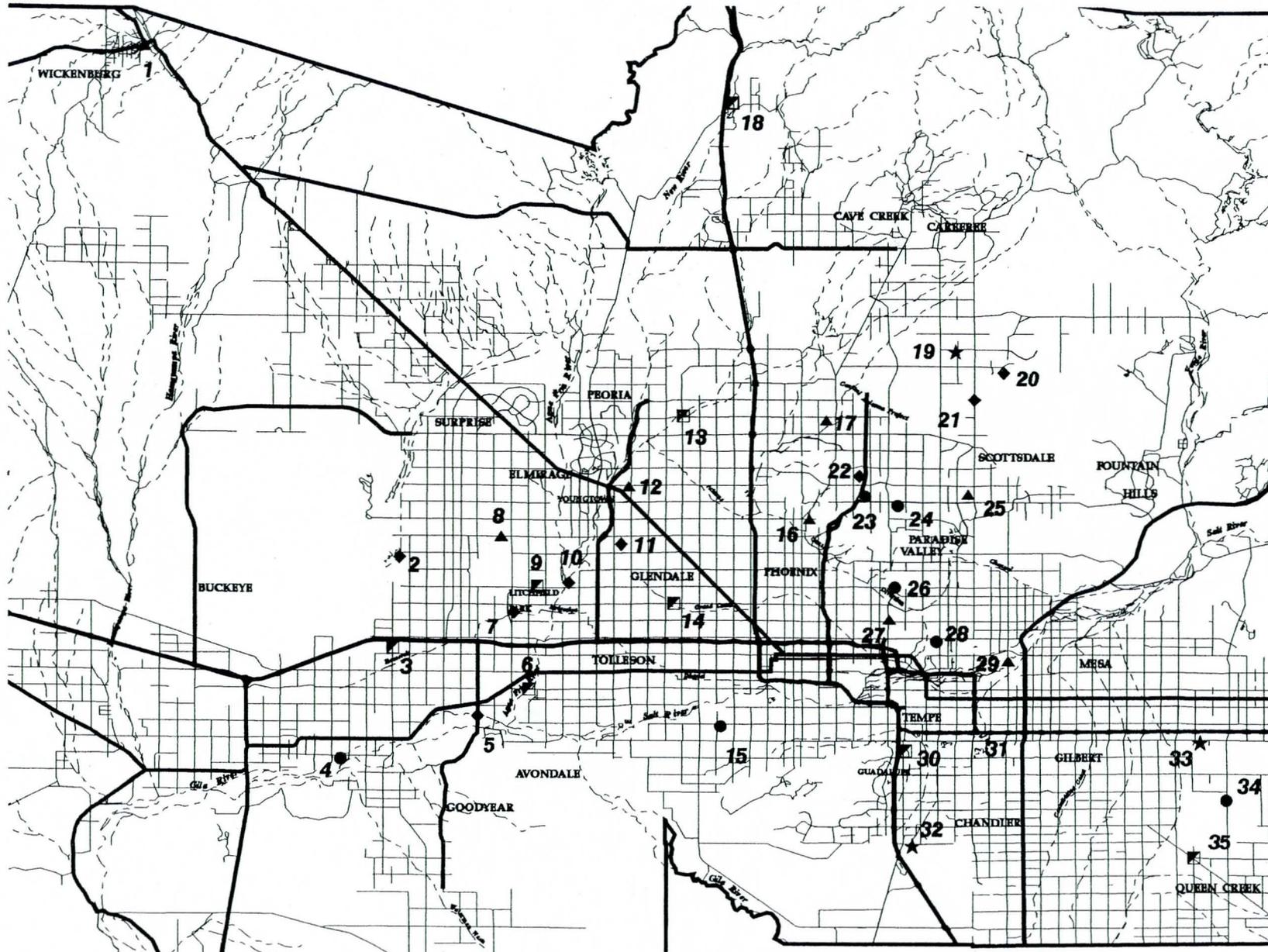
Stanley L. Smith Jr., P.E., Interim Chief Engineer and General Manager

Greg Rodzenko, P.E., Planning & Project Management Division Manager (Acting)

Evaluation Committee: Dave Johnson, Manager, Regulatory Division
Tom. Johnson, P.E., Manager, Construction & Maintenance Division
Richard Perreault, Manager, Planning Branch
Ed Raleigh, P.E., Manager, Engineering Division

Prepared by: Doug Williams, AICP
Lori Minor,
Planning & Project Management

Status of Major C.I.P. Projects



Project Index

1. Casandro Wash Dam & Outlet
2. White Tanks #3 FRS Modification
3. White Tanks #4 Inlet Improvements
4. Salt-Gila River Study
5. Bullard Wash Outfall Channel
6. Agua Fria Flowage Easements
7. RID Canal Overchute
8. Dysart Drain/Reems Rd. Connector
9. Colter Channel
10. Camelback Ranch
11. Northern/Orangewood Storm Drain
12. Cactus Road Storm Drain
13. Skunk Creek Improvements
14. Maryvale Flooding Mitigation
15. South Phoenix Drainage Improvements
16. 10th Street Wash Basins
17. East Fork Cave Creek
18. New River ADMP
19. Rawhide Wash Improvements
20. Reata Pass Channel
21. Pima Road Channel
22. Squaw Peak LOMR
23. Tatum Wash Channel
24. Doubletree Ranch Rd. Drains
25. 84th St/Cholla Basin & Drain
26. Arcadia Area Drainage Project
27. Old Cross Cut Canal
28. STP Papago Watershed Study
29. Salt River Channel
30. Town of Guadalupe
31. Price Drain
32. Southeast Valley Regional Drainage
33. Sossaman Channel
34. Southeast Mesa ADMP
35. Rittenhouse Drainage Improvements

Status (as of 9/4/96)

- ▲ Construction
- Study
- Land Acquisition
- ◆ Design
- ★ Planned



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Alphabetical Listing of CIP Projects

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Alphabetical Listing of CIP Projects (contd.)

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Bullard Wash Outfall Channel	A-5, B-27
Colter Channel	A-5, B-22
Dysart Drain/Reems Road Connector	A-5, B-25
RID Canal Overchute	A-5, B-26
White Tanks #3 FRS Modifications	A-5, B-24
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Wickenburg Area Drainage Master Plan (P6A343)	A-4, B-13
Casandro Wash Dam and Outlet	A-4, B-13

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 1996 through June 2001.

The Capital Improvement Program

The District maintains a Five-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 Five-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. The selected projects are reviewed through the *Procedure for Identifying and Prioritizing Potential Five-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-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, every five years the District conducts 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 to provide the District a proactive and leadership role in developing uniform, comprehensive inventories and models of the natural and manmade features that influence rainfall-runoff in selected study areas. There are approximately twenty-four (24) ADMS areas ranging from 15 to 280 square miles. Twelve (12) of the studies have been completed and three are currently underway.

Area Drainage Master Plans (ADMPs) are derived for each of the ADMS areas. These plans identify the results of studies and recommends solutions for flooding problems. Requests from cities, towns and other agencies, along with ADMPs, are intended to be major sources of 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 forty (40) original project concepts contained in the District's first Comprehensive Report (1963). This Report identifies projects being undertaken by other governmental agencies in cooperation with the District, and reviews the Area Drainage Master Study (ADMS) Program.

Prioritization Process

The prioritization procedure was initially implemented for the FY 94-95 budget development cycle and serves as the primary mechanism for developing new CIP projects 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 Five-Year CIP.

An important aspect of the Prioritization Procedure is the District's cooperation with its client communities in defining the appropriate criteria for project review and assigning an appropriate weighting to each criterion. Table 1 (opposite) shows the criteria and weights used in identifying project priorities, as determined workshop attended by participating agencies.

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 the budget and Five-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, next page). First, all newly proposed projects are evaluated according to given, weighted criteria by a committee made up of District staff members. 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

**Table 1
Prioritization Criteria**

Criterion	Points
<i>Master Plan Element</i>	6
<i>Agency Priority</i>	5
<i>Hydrologic/Hydraulic Significance</i>	10
<i>Area Protected</i>	30
<i>Level of Protection</i>	10
<i>Environmental/Area wide Benefits</i>	20
<i>Total Project Cost</i>	6
<i>Local Participation</i>	8
<i>Operations & Maintenance Costs</i>	5
TOTAL	100

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 Five-Year CIP program. For projects requiring an Intergovernmental Agreement (IGA), 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.

New and ongoing projects that have been 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, FY 95-96 and FY 96-97 project evaluation and prioritization processes are summarized in Appendix C.

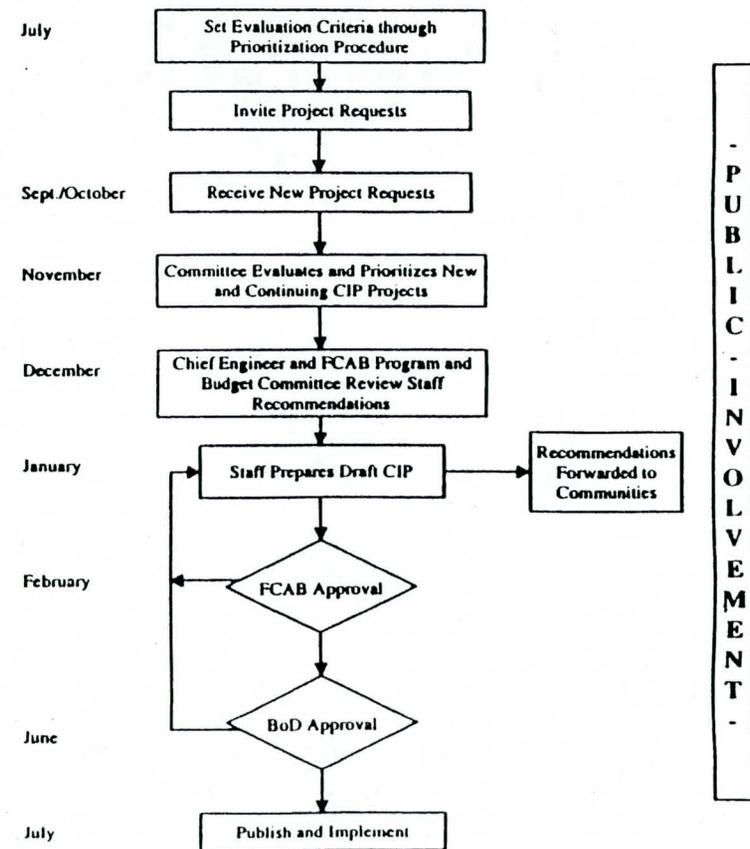
Projects with construction activity underway were not numerically ranked by the Project Evaluation Committee. Once a CIP project has progressed to the stage where engineering design, plans and construction specifications are being prepared, its place in the Five-Year CIP program is generally maintained. 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 \$0.3425/\$100 assessed value, generates approximately \$1.1 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 2 (next page) and Figure 2 (next page) provide a summary of historic tax rates and revenue generated for the period from 7/84 through 6/96. From 7/89 through 6/96, a period of seven years, the District's annual revenue from the real estate tax has decreased by more than thirty (30) percent, however, it has been relatively constant since June 1994.

Figure 1 - FCD 5-Year CIP Process



FY 96-97 to FY 00-01 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 (5) years (FY 96-97 through FY 00-01). The project listing also contains estimated expenditures.

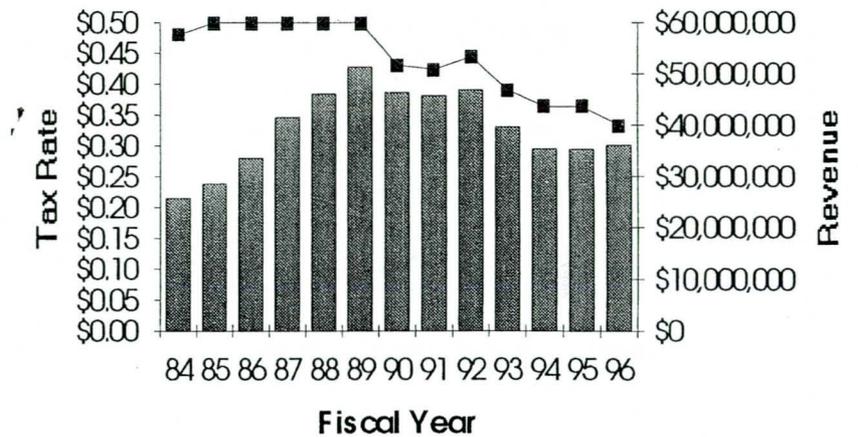
Appendix B provides a narrative summary of each of the projects recommended for CIP consideration through the FY 94-95, FY 95-96 and FY 96-97 Prioritization Process.

Appendix C provides a summary of the results of the FY 96-97 Prioritization Process.

**Table 2
Tax Rates by Fiscal Year**

Year	Rate	Revenue
95/96	\$0.3332	\$36,085,470
94/95	\$0.3632	\$35,300,000
93/94	\$0.3632	\$35,386,000
92/93	\$0.3901	\$39,715,000
91/92	\$0.4447	\$46,879,000
90/91	\$0.4235	\$45,797,000
89/90	\$0.4303	\$46,408,000
88/89	\$0.5000	\$51,345,000
87/88	\$0.5000	\$46,059,000
86/87	\$0.5000	\$41,566,000
85/86	\$0.5000	\$33,644,000
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 96/97 through 00/01.

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 six projects that originated from 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. Possible reasons could be; availability of funding; status of design or construction plans; or incompatible schedules of other related activities. Also included in the CIP table are columns showing supervisor districts and any municipality the project may be located in.

Funding available for the CIP is based on estimates which combine anticipated revenues from numerous sources with the District's anticipated flood control tax revenues. The District's tax revenues are a function of the tax rate which is set annually by the Board of Directors. The Flood Control District tax applies to the assessed real property valuations which are also set annually by the County Board of Supervisors. The tax rate for FY 96/97 has been set at \$0.3425/\$100 assessed value.

3413

Funding for future year CIP requirements is estimated by enhancing present estimated costs by 4.8% annually and by increasing the assessed property values by 3% annually. The estimated future years CIP funding is shown in Table 3 (opposite).

Many projects are completed with funding participation from other governmental entities. This participation often includes a monetary reimbursement for a portion of the expenditures incurred by the District. The majority of the costs associated with any specific project includes; preparation of design plans and specifications; utility relocations; construction; land acquisition; personnel costs and indirect services chargeable to the project. Following the expenditure listings on the table, there is a listing of projected reimbursements, and from whom according to project.

TABLE 3
Estimated 5-Year CIP Funding*
(In Thousands)

<u>FY</u>	<u>TAX REVENUE</u>	<u>CIP AMOUNT</u>
96/97	\$38,500	\$33,780
97/98	<u>41,481</u>	28,369
98/99	42,813	32,561
99/00	44,101	22,358
<u>00/01</u>	<u>45,424</u>	<u>22,358</u>
TOTAL	\$212,319	\$139,426

*Includes all sources

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE SUMMARY									
Adopted September 4, 1996				X \$ 1,000		Five Year CIP			
CITY	DIST.	ACT #	DESCRIPTION	FY 96/97	FY 97/98	FY 98/99	FY 99/00	FY 00/01	5-Yr TOTAL
			Tax Rate:	0.3425					
Multiple	All	P6A001	FCD OPERATIONAL FACILITIES	515	0	6	0	0	521
Multiple	all	P6A003	BEST MANAGEMENT PRACTICE	180	200	250	253	308	1,191
Multiple	all	P6A017	FLOOD WARNING SYSTEM	50	50	50	50	0	200
Scottsdale	2	P6A027	CITY OF SCOTTSDALE	600	250	750	0	0	1,600
Guadalupe	5	P6A035	TOWN OF GUADALUPE	314	700	800	0	0	1,814
Phoenix	1,2,3	P6A103	OLD CROSS CUT CANAL	6,781	3,750	3,390	0	0	13,921
Multiple	4,5	P6A106	SALT GILA CONTROL WORKS	40	0	0	0	0	40
Mesa	1,2	P6A108	SOSSAMAN CHANNEL	0	0	100	500	0	600
Mesa	1	P6A115	PRICE DRAIN	1,400	0	0	0	0	1,400
Multiple	1,5	P6A117	SOUTH PHOENIX DRAINAGE IMPROVEMENT	744	726	1,000	2,000	2,000	6,470
Multiple	1,5	P6A125	SALT RIVER CHANNEL	0	0	0	0	0	0
Wickenburg	4	P6A343	WICKENBURG ADMP	229	0	0	0	0	229
Multiple	4	P6A362	SKUNK CREEK	668	200	3,900	3,000	2,000	9,768
Multiple	3	P6A371	NEW RIVER ADMP	103	0	0	0	0	103
Multiple	4	P6A400	SKUNK CREEK/NEW RIVER	1,331	2,350	0	0	0	3,681
Avondale	5	P6A401	AGUA FRIA	15	0	0	0	0	15
Mesa	1,2	P6A442	SOUTHEAST MESA ADMP	570	264	1,000	3,200	3,000	8,034
Multiple	4	P6A450	GLENDALE/PEORIA ADMP	2,100	2,500	3,000	3,000	3,000	13,600
Phoenix	3	P6A460	EAST FORK CAVE CREEK	254	0	0	0	0	254
Multiple	4,5	P6A470	WHITE TANKS ADMP	3,289	694	4,400	2,040	1,600	12,023
Multiple	1	P6A480	QUEEN CREEK ADMP	1,515	2,000	1,700	0	0	5,215
Chandler	1,5	P6A490	GILBERT/CHANDLER ADMP	1,459	4,050	2,740	3,360	0	11,609
Multiple	2,3	P6A580	ACDC ADMP	2,501	2,200	1,100	2,000	2,850	10,651
Phoenix	4,5	P6A620	MARYVALE ADMP	3,350	3,565	2,000	2,800	2,000	13,715
Scottsdale	2	P6A680	UIBW ADMP	5,670	4,870	6,375	4,400	5,600	26,915
			CIP PROJECT CONTINGENCY	102	0	0	0	0	102
			SUBTOTAL PROJECTS	33,780	28,369	32,561	26,603	22,358	143,671
			INDIRECT CHARGES	1,074	1,106	1,139	1,173	1,208	5,700
			FORCE	1,945	1,994	2,044	2,095	2,147	10,225
			PROJECTS TOTAL	36,799	31,469	35,744	29,871	25,713	159,596

* = Projects not completed during the five year CIP.

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE								Five Year CIP					
Adopted September 4, 1996				X \$ 1,000									
CITY	DIST.	ACT #	DESCRIPTION	FY 96/97	FY 97/98	FY 98/99	FY 99/00	FY 00/01	5-Yr TOTAL				
			Tax Rate:	0.3425									
Multiple	All	P6A001	FCD OPERATIONAL FACILITIES	515	0	6	0	0	521				
Multiple	All		ADA COMPLIANCE	7	0	6	0	0	13				
Multiple	All		800 MHZ RADIO	150	0	0	0	0	150				
Multiple	All		TELEPHONE SYSTEM	325	0	0	0	0	325				
Multiple	All		SECURITY	10	0	0	0	0	10				
Multiple	All		HAZMAT SITE PREP	23	0	0	0	0	23				
Multiple	all	P6A003	BEST MANAGEMENT PRACTICE	180	200	250	253	308	1,191				
Multiple	n/a		WETLANDS	0	0	20	30	49	99				
Multiple	n/a		TREATMENT FACILITIES	0	0	30	23	59	112				
Mesa	1		EMF WETLANDS	0	0	0	0	0	0				
Multiple	3		ASBESTOS ABATEMENT	80	100	100	100	100	480				
Multiple	n/a		ENVIRONMENTAL ASSESSMENT	100	100	100	100	100	500				
Multiple	all	P6A017	FLOOD WARNING SYSTEM	50	50	50	50	0	200				
Multiple	all		FLOOD WARNING SYSTEM	50	50	50	50	0	200				
Scottsdale	1,2,5	P6A027	CITY OF SCOTTSDALE	600	250	750	0	0	1,600 *				
Scottsdale	2		84TH STREET/CHOLLA BASIN DRAIN	100	0	0	0	0	100				
Multiple	1,2,5		STP PAPAGO WATERSHED STUDY	500	250	750	0	0	1,500 *				
Guadalupe	5	P6A035	TOWN OF GUADALUPE	314	700	800	0	0	1,814				
Guadalupe	5		TOWN OF GUADALUPE	314	700	800	0	0	1,814				
Phoenix	1,2,3	P6A103	OLD CROSS CUT CANAL	6,781	3,750	3,390	0	0	13,921				
Phoenix	1,2,3		MCDOWELL TO ARIZONA CANAL	6,750	3,750	3,390	0	0	13,890				
Phoenix	2,3		ARCADIA AREA DRAINAGE PROJECT	31	0	0	0	0	31				
Multiple	4,5	P6A106	SALT GILA CONTROL WORKS	40	0	0	0	0	40				
Multiple	4,5		SALT GILA CONTROL WORKS	40	0	0	0	0	40				
Mesa	1,2	P6A108	SOSSAMAN CHANNEL	0	0	100	500	0	600				
Mesa	1,2		SOSSAMAN CHANNEL - US 60 TO BASELINE	0	0	100	500	0	600				

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE										
Adopted September 4, 1996				X \$ 1,000		Five Year CIP				
CITY	DIST.	ACT #	DESCRIPTION	FY 96/97	FY 97/98	FY 98/99	FY 99/00	FY 00/01	5-Yr TOTAL	
			Tax Rate:	0.3425						
Mesa	1	P6A115	PRICE DRAIN	1,400	0	0	0	0	1,400	
Mesa	1		PRICE DRAIN	1,400	0	0	0	0	1,400	
Multiple	1,5	P6A117	SOUTH PHOENIX DRAINAGE IMPROVEMENT	744	726	1,000	2,000	2,000	6,470 *	
Multiple	1,5		SOUTH PHOENIX DRAINAGE IMPROVEMENT	744	726	1,000	2,000	2,000	6,470 *	
Multiple	1,2,5	P6A125	SALT RIVER CHANNEL	0	0	0	0	0	0	
Multiple	1,2,5		DOBSON - COUNTRY CLUB DR.	0	0	0	0	0	0	
Wickenburg	4	P6A343	WICKENBURG ADMP	229	0	0	0	0	229	
Wickenburg	4		CASANDRO WASH DAM	229	0	0	0	0	229	
Multiple	4	P6A362	SKUNK CREEK	668	200	3,900	3,000	2,000	9,768 *	
Glendale	4		UNION HILLS - ADOBE DAM	315	200	2,900	1,000	0	4,415	
Peoria	4		ACDC - UNION HILLS	353	0	1,000	2,000	2,000	5,353 *	
Multiple	3	P6A371	NEW RIVER ADMP	103	0	0	0	0	103	
Multiple	3		UPPER NEW RIVER MITIGATION	103	0	0	0	0	103	
Multiple	4	P6A400	SKUNK CREEK/NEW RIVER	1,331	2,350	0	0	0	3,681	
Phoenix	4		CAMELBACK RANCH LEVEE	1,331	2,350	0	0	0	3,681	
Avondale	5	P6A401	AGUA FRIA	15	0	0	0	0	15	
Avondale	5		AGUA FRIA	15	0	0	0	0	15	
Mesa	1,2	P6A442	SOUTHEAST MESA ADMP	570	264	1,000	3,200	3,000	8,034 *	
Mesa	1,2		SOUTHEAST MESA ADMP	570	114	1,000	1,000	3,000	5,684 *	
Mesa	1		ELLSWORTH / GERMANN IMPROVEMENTS	0	150	0	2,200	0	2,350 *	
Multiple	4	P6A450	GLENDALE/PEORIA ADMP	2,100	2,500	3,000	3,000	3,000	13,600 *	
Peoria	4		CACTUS ROAD STORM DRAIN	1,500	2,500	0	0	0	4,000	
Multiple	4		NORTHERN/ORANGEWOOD STORM DRAIN	600	0	3,000	3,000	3,000	9,600 *	

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE

Adopted September 4, 1996

X \$ 1,000

Five Year CIP

CITY	DIST.	ACT #	DESCRIPTION	Five Year CIP					5-Yr TOTAL
				FY 96/97	FY 97/98	FY 98/99	FY 99/00	FY 00/01	
			Tax Rate:	0.3425					
Phoenix	3	P6A460	EAST FORK CAVE CREEK	254	0	0	0	0	254
Phoenix	3		ROSEMONT DR LATERAL (R01)	62	0	0	0	0	62
Phoenix	3		UTOPIA RD LATERAL (R02)	20	0	0	0	0	20
Phoenix	3		GROVERS AVE LATERAL (R03)	151	0	0	0	0	151
Phoenix	3		CAMPOBELLO DR LATERAL (R04)	21	0	0	0	0	21
Multiple	4,5	P6A470	WHITE TANKS ADMP	3,289	694	4,400	2,040	1,600	12,023 *
Glendale	4		COLTER CHANNEL (R01)	5	0	0	0	0	5
Glendale	4,5		DYSART DRAIN/REEMS RD CONNECTOR	1,739	0	0	0	0	1,739
County	4		WHITE TANKS #4 INLET (R02)	75	0	1,500	0	0	1,575 *
County	4		WHITE TANKS #3 FRS MODIFICATION (NRCS)	0	0	0	0	0	0
Multiple	5		RID CANAL OVERCHUTE (R09)	819	300	0	0	0	1,119
Goodyear	4		BULLARD WASH OUTFALL CHANNEL (R10)	651	394	2,900	2,040	1,600	7,585
Multiple	1	P6A480	QUEEN CREEK ADMP	1,515	2,000	1,700	0	0	5,215
Queen Cr./ Mesa	1		RITTENHOUSE RD DRAINAGE IMPROVEMENT	1,515	2,000	1,700	0	0	5,215
Chandler	1,5	P6A490	GILBERT/CHANDLER ADMP	1,459	4,050	2,740	3,360	0	11,609
Chandler	1,5		SE VALLEY REGIONAL DRAINAGE SYSTEM	0	0	0	0	0	0
Chandler	1,5		GILA DRAIN FLOODWAY TO PRICE	1,459	2,750	0	0	0	4,209
Chandler	1,5		GILA DRAIN FLOODWAY TO GILA DRAIN	0	1,300	1,000	0	0	2,300
Chandler	1,5		GILA DRAIN TO McCLINTOCK	0	0	1,740	860	0	2,600
Chandler	1,5		McCLINTOCK TO PRICE ROAD	0	0	0	2,500	0	2,500
Multiple	2,3	P6A580	ACDC ADMP	2,501	2,200	1,100	2,000	2,850	10,651 *
Phoenix	3		SQUAW PEAK LOMR	50	0	0	0	0	50
Phoenix	3		10TH STREET WASH	0	0	0	0	0	0
Phoenix	3		10TH STREET BASIN #2 (R04)	1,033	0	0	0	0	1,033
P.V.	2		DOUBLETREE RANCH ROAD DRAIN	365	600	1,000	2,000	2,850	6,815 *
Phoenix	2,3		TATUM WASH CHANNEL	1,053	1,600	100	0	0	2,753
Phoenix	4,5	P6A620	MARYVALE ADMP	3,350	3,565	2,000	2,800	2,000	13,715 *
Phoenix	4,5		ADMP	0	500	500	0	0	1,000 *
Phoenix	4,5		63RD & SUNSET DR.	3,200	0	1,500	0	0	4,700
Phoenix	4,5		48TH & CRITTENDON	150	3,065	0	2,800	2,000	8,015

Flood Control District of Maricopa County: Capital Improvement Program

CIP PROJECT BUDGET/SCHEDULE				Five Year CIP					
Adopted September 4, 1996				X \$ 1,000					
CITY	DIST.	ACT #	DESCRIPTION	FY 96/97	FY 97/98	FY 98/99	FY 99/00	FY 00/01	5-Yr TOTAL
			Tax Rate:	0.3425					
Scottsdale	2	P6A680	UIBW ADMP	5,670	4,870	6,375	4,400	5,600	26,915 *
Scottsdale	2		SCOTTSDALE & PHOENIX	0	0	0	0	0	0
Scottsdale	2		REATA PASS CHANNEL	5,400	2,000	2,000	400	0	9,800
Scottsdale	2		PIMA ROAD CHANNEL	270	2,870	4,000	3,000	2,400	12,540
Scottsdale	2		RAWHIDE WASH IMPROVEMENTS	0	0	375	1,000	3,200	4,575 *
			CIP PROJECT CONTINGENCY	102	0	0	0	0	102
			SUBTOTAL PROJECTS	33,780	28,369	32,561	26,603	22,358	143,671
			INDIRECT CHARGES	1,074	1,106	1,139	1,173	1,208	5,700
			FORCE	1,945	1,994	2,044	2,095	2,147	10,225
			PROJECTS TOTAL	36,799	31,469	35,744	29,871	25,713	159,596

* = Projects not completed during the five year CIP.

REIMBURSEMENTS

Phoenix	1,2,3	P6A103	OLD CROSS CUT CANAL (PHOENIX)	(3,625)	(875)	0	0	0	(4,500)
Glen/Peoria	4	P6A362	SKUNK CREEK (GLENDALE)	0	0	(2,000)	0	0	(2,000)
Peoria	4	P6A400	DESERT HARBOR DROP STRUCTURE (PEORIA)	(386)	0	0	0	0	(386)
Peoria	4	P6A450	CACTUS ROAD STORM DRAIN (GLEN./PEORIA)	0	(650)	(1,000)	(1,750)	0	(3,400)
Glendale	4	P6A450	NORTHERN/ORANGEWOOD S. D. (GLEN./PEORIA)	0	(650)	(1,000)	(1,750)	0	(3,400)
Goodyear	4	P6A470	BULLARD WASH CHANNEL (GOODYEAR)	0	0	(3,750)	0	0	(3,750)
Phoenix	4,5	P6A470	DYSART DRAIN/REEMS RD. CONNECTOR (USAF)	(2,877)	0	0	0	0	(2,877)
Chandler	1,5	P6A490	GILBERT/CHANDLER ADMP (CHANDLER)	(1,000)	0	0	0	0	(1,000)
Phoenix	2,3	P6A580	ACDC ADMP (PHOENIX)	(420)	0	0	0	0	(420)
			REIMBURSEMENTS	(8,308)	(2,175)	(7,750)	(3,500)	0	(21,733)

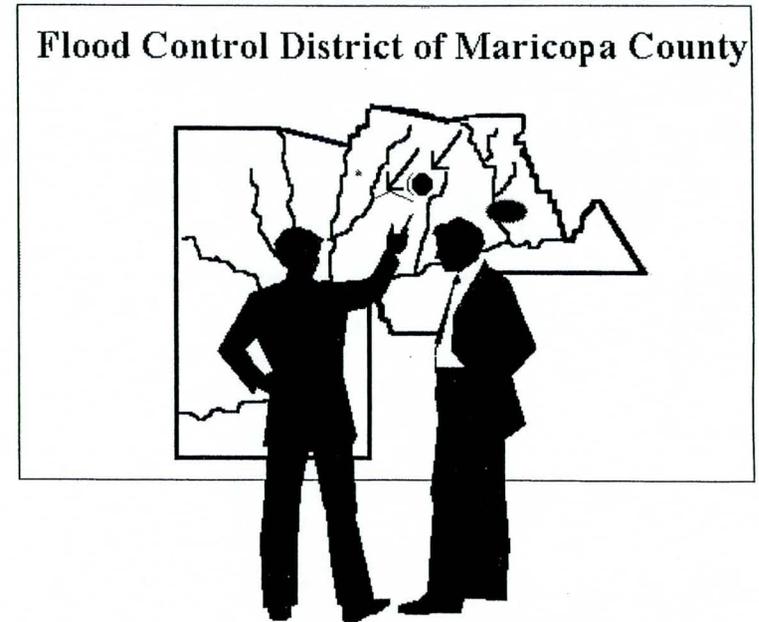
Appendix B: CIP Project Description Sheets

PROJECT DESCRIPTIONS

The Project Description Sheets include general description of the projects according to their current status. They are not intended as a 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 sorted by activity code; therefore, the project descriptions are also ordered in this method.



FLOOD CONTROL DISTRICT FACILITIES

Activity Code: P6A001

This project includes: 1) Upgrading the Districts' telecommunications system as a result of a County-wide system change; 2) Installation of HAZMAT storage facilities at the field maintenance sites; 3) Completion of the radio conversion to the 800 MHZ system; 4) Replacement of the existing security system with a new system that is compatible with current County equipment; and, 5) HVAC modifications for the East Mesa maintenance facility.

BEST MANAGEMENT PRACTICES

Activity Code: P6A003

Best Management Practices (BMPs) are measures or controls to prevent or reduce the discharge of pollutants in storm water runoff. BMPs include biological processes, water detention/filtration, schedules of activities and prohibition of certain practices. These measures, along with other management techniques, may be implemented at the source of discharge or within a receiving water body.

FLOOD WARNING SYSTEM

Activity Code: P6A017

The Flood Warning System is called the Automated Local Evaluation in Real Time (ALERT) system. This system includes 178 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

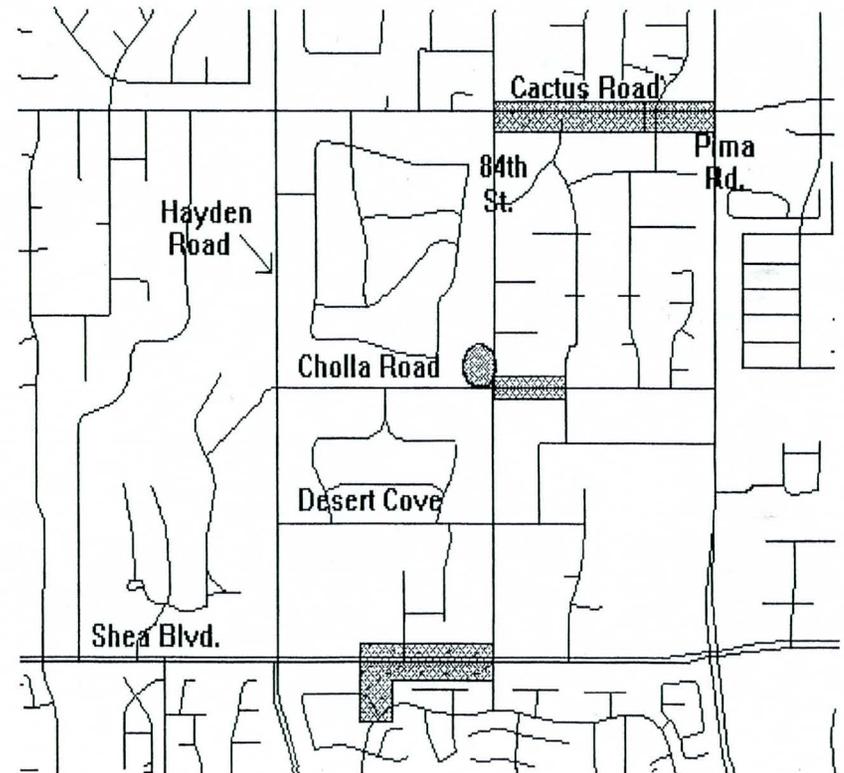
Supervisor District: 2

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 one church in a fully-developed, 250-acre area. Of this figure, twenty-one (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.

The approved IGA includes a funding split of \$925,000 for Scottsdale and \$750,000 for the District to construct a storm drain system, an open channel, and a detention basin. The final portion of the District's cost share has been budgeted in FY 96-97. Scottsdale will provide future operations and maintenance of the constructed features.



CITY OF SCOTTSDALE (Continued)

Activity Code: P6A027

Supervisor District: 2

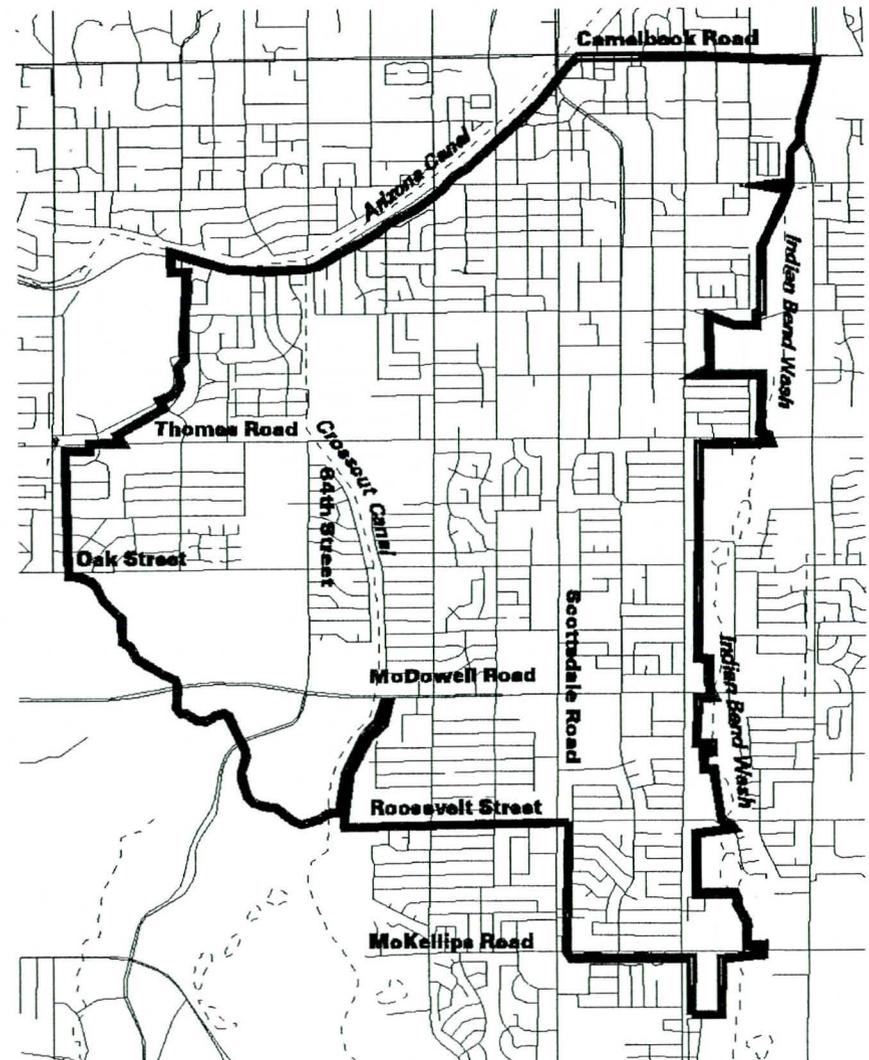
Township/Range: T2N R4E S 23,27,28,33,34,35

T1N R4E S 2,3

Project Name: STP Papago Watershed Study

The S.T.P. - Papago Regional Flood Control Project study will evaluate planning alternatives and prepare a recommended final planning report for a storm water management system. The area is bounded by the Arizona Canal (NW); Camelback Road (N); Indian Bend Wash (E); McKellips Road (S); and 60th Street (W). The recommended Plan will be developed to alleviate lower frequency flooding problems throughout the project area and reduce or eliminate the limits of an existing "A" Zone flood plain along the west side of the Cross Cut Canal. Close coordination between the Cities of Scottsdale, Phoenix, Tempe, and SRP will be required to insure success of this study.

The District is funding 100% of the estimated \$750,000 required for this study. Funds for this project have been allocated in FY 96-97 & 97-98.



TOWN OF GUADALUPE

Activity Code: P6A035

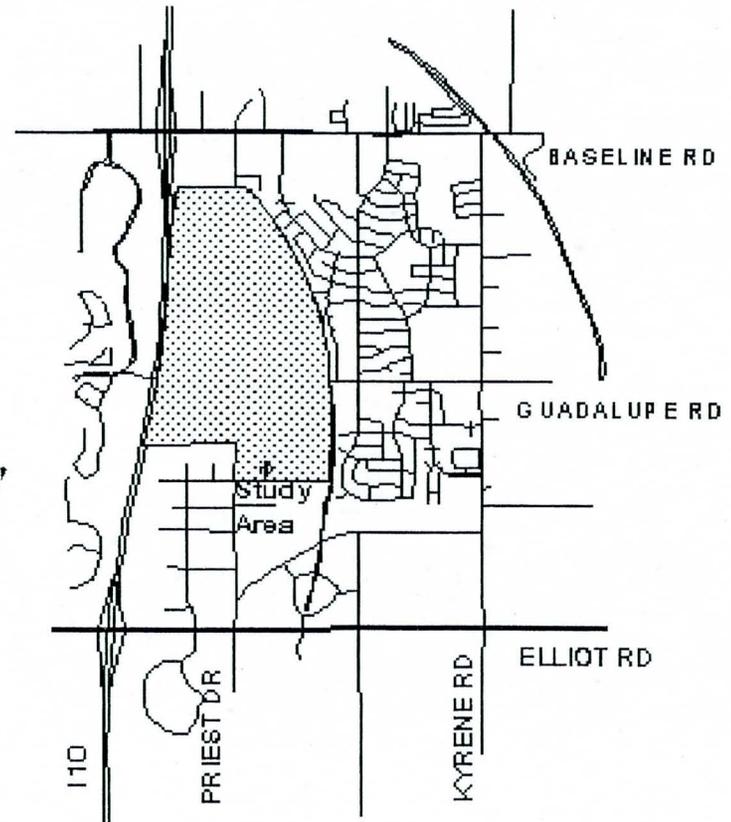
Supervisor District: 5

Township/Range: T1S R4E S4, SEC 9

Project Name: Guadalupe Study and Improvements

The project will provide a storm water collection, three retention basins located along the Highline Canal and outfall system for runoff originating within the Town of Guadalupe. Runoff from within the Town results in flooding of low lying houses and collects along the Highline Canal. The ponded water results in flooding of adjacent homes and causes damage to the canal and to downstream properties within Tempe.

The project costs for design and construction of the project are estimated to be \$3,900,000. Based upon the asking price of the two parcels currently for sale, the rights-of-way for the project are estimated to be \$2,120,000. The town is not currently able to contribute financially to the project but will assume maintenance responsibilities for the basins. Additionally, the Town will seek grants and other means to participate in the construction phase.



OLD CROSS CUT CANAL

Activity Code: P6A103

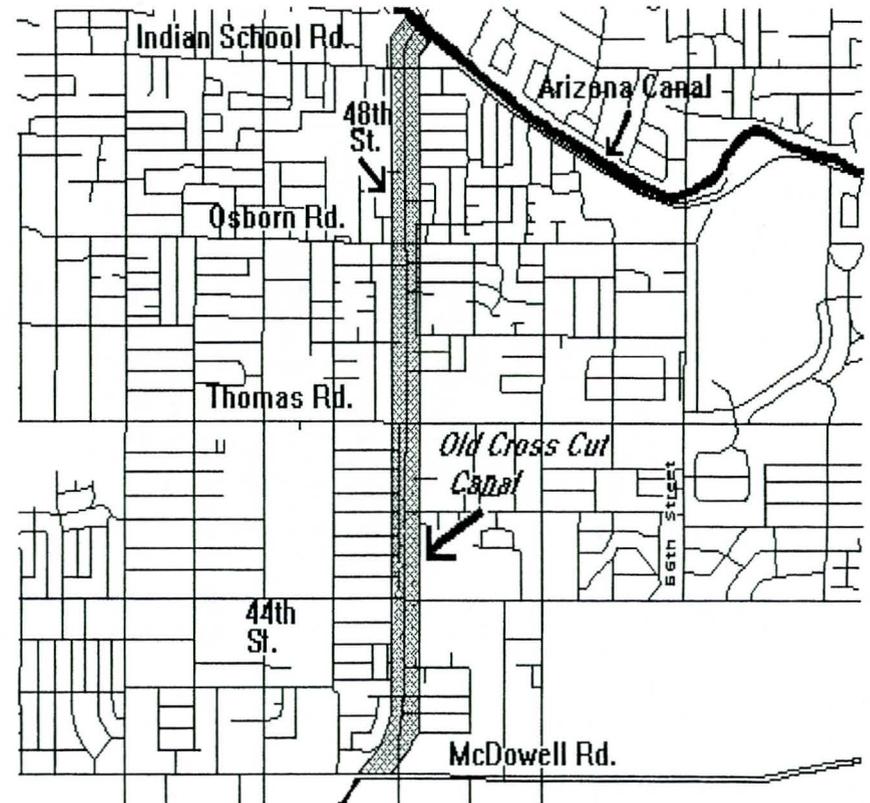
Supervisor District: 1, 5

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. Total costs for the project are estimated to be \$20 million. The District and the City will operate and maintain the constructed project.

The cost for the project will be constructed in phases according to the following schedule: Phase I—Thomas Road crossing (completed in May, 1996); Phase II—south of Thomas Road (begin June 1996); Phase III—north of Thomas Road (scheduled to begin in Spring 1998).



OLD CROSS CUT CANAL (continued)

Activity Code: P6A103

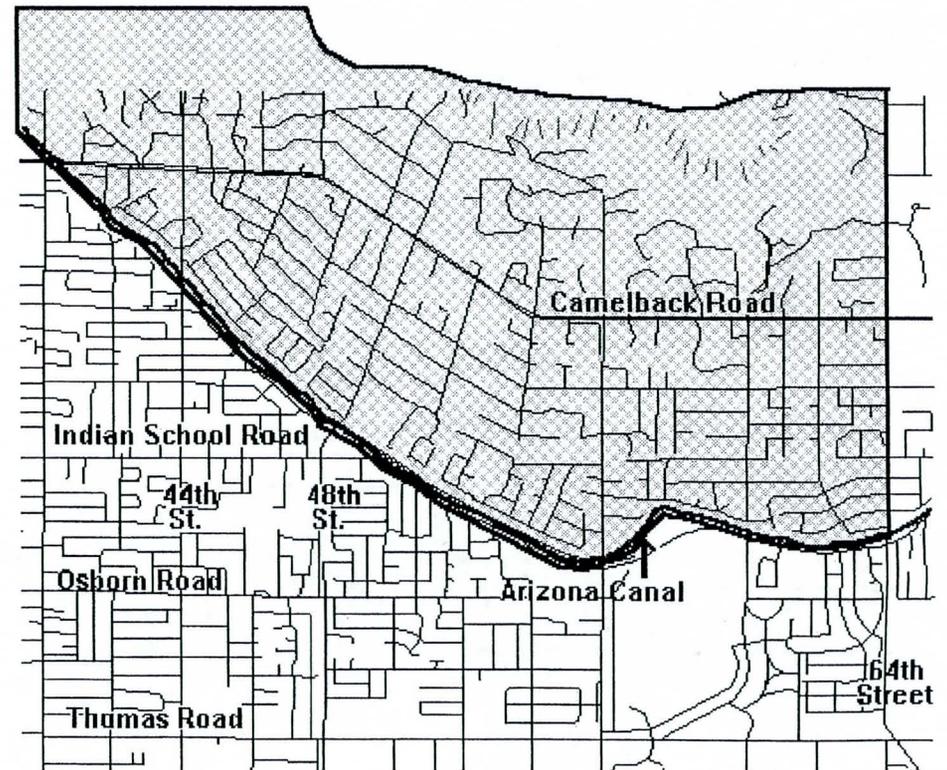
Supervisor District: 2, 3

Township/Range: T2N R4E S19-21

Project Name: Arcadia Area Drainage Project

The project will develop and recommend storm drain systems which will intercept and convey up to 1,000 cfs through a highly developed residential area between 40th and 64th Streets, north of the Arizona Canal. The project will create a drainage outfall for about four 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 expected to be shared between the District and the City of Phoenix at 50% each in accordance with a future IGA. The City will provide the operation and maintenance for the project.



SALT GILA CONTROL WORKS

Activity Code: P6A106

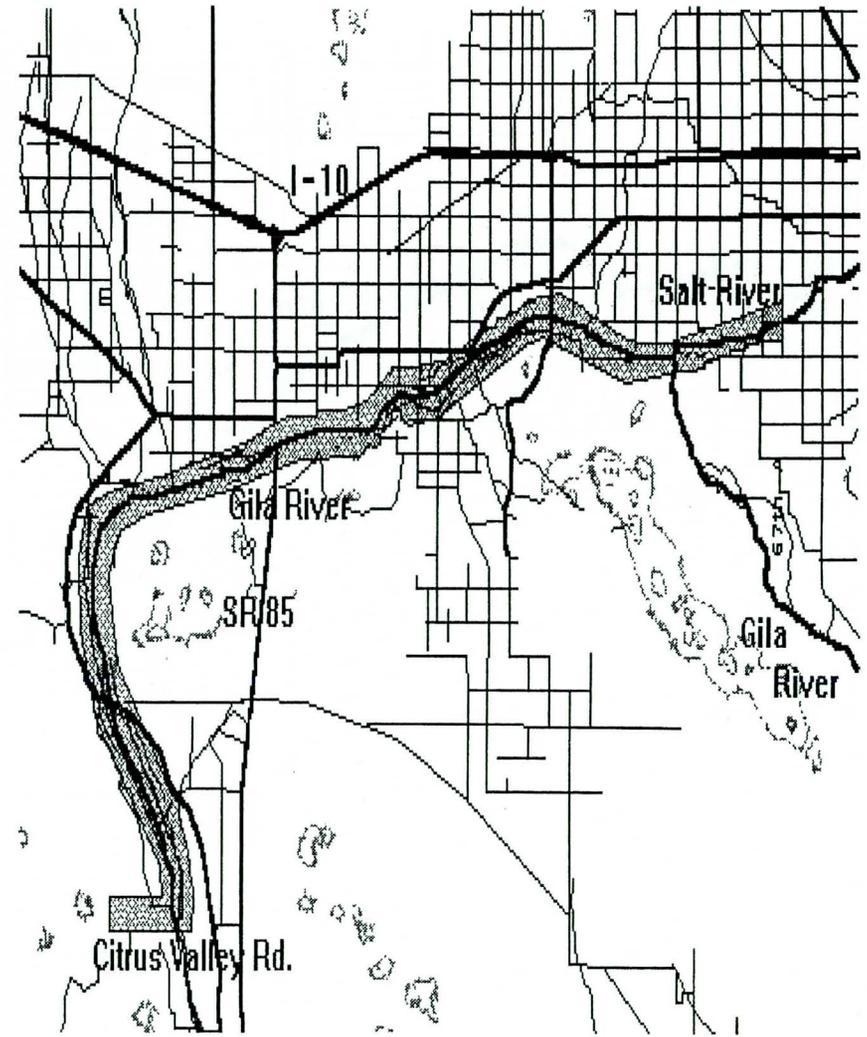
Supervisor District: 4, 5

T/R: T1N R1E; T1N R1W; T1N R2W; T1S R1E; T1S R1W; T1S R2W; T1S R3W; T1S R4W; T1S R5W; T2S R5W; T3S R4W; T3S R5W; T4S R4W; T5S R4W; T5S R5W

Project Name: Salt-Gila River Management Study

This project has been canceled because of the 1993 storm that destroyed the clearing and pilot channel. To rebuild the corridor, a Corps of Engineers 404 permit would be required. The cost and regulations that would need to be met to attain the permit have made reconstruction unlikely. Funding has been deleted from the five-year CIP.

The land acquisition part of the project will continue after being on hold since the 1989 Appellate Court ruling on stream bed ownership. While on hold, the District has been liable for 10% interest in its condemnation cases until all payments are made to the owners or their legal representatives. Resolution FCD 95-03 authorized the District to finalize all land acquisitions pertaining to the 1000 FT Corridor and eliminate future interest payments. Cost is estimated at \$40,000 to complete the acquisition process during FY 96-97.



SOSSAMAN CHANNEL

Activity Code: P6A108

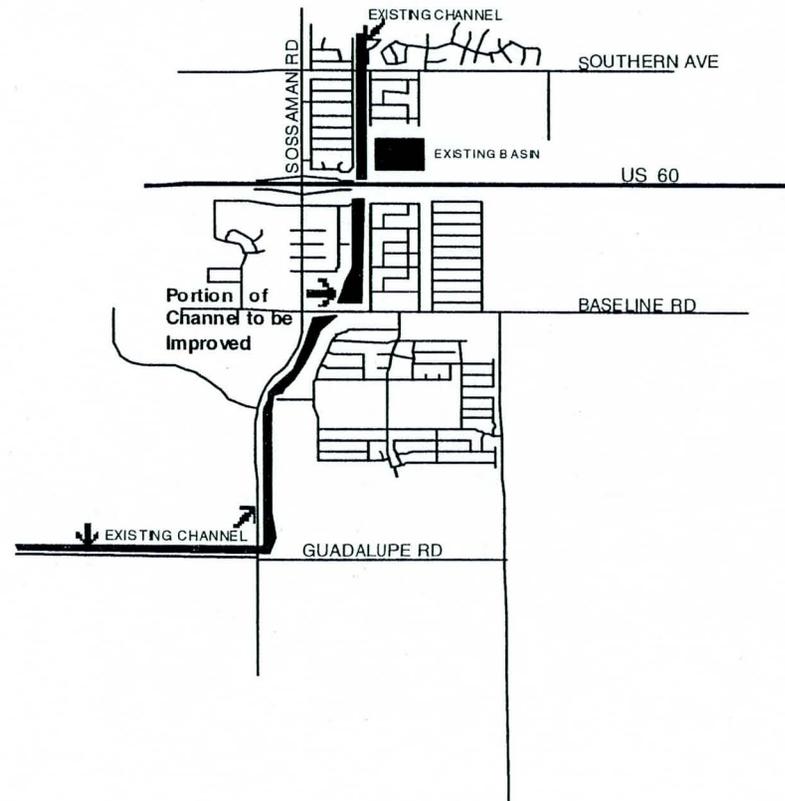
Supervisor District: 1, 2

Township/Range: T1N R7E S32

Project Name: Sossaman Channel

This project is located in east Mesa, between Sossaman Road and Hawes Road and the Superstition Freeway (U.S. 60) to Baseline Road. The existing channel section does not have sufficient capacity to convey the 100-year peak discharge of 2400 cfs. The project will improve the channel from U.S. 60 to Baseline Road.

District staff is projected to design the Channel sometime in FY 96-97. The \$600,000 allocated to the project will be reviewed after completion of the design. At that time, the project construction date may be revised, depending on the availability of funds.



PRICE DRAIN

Activity Code: P6A115

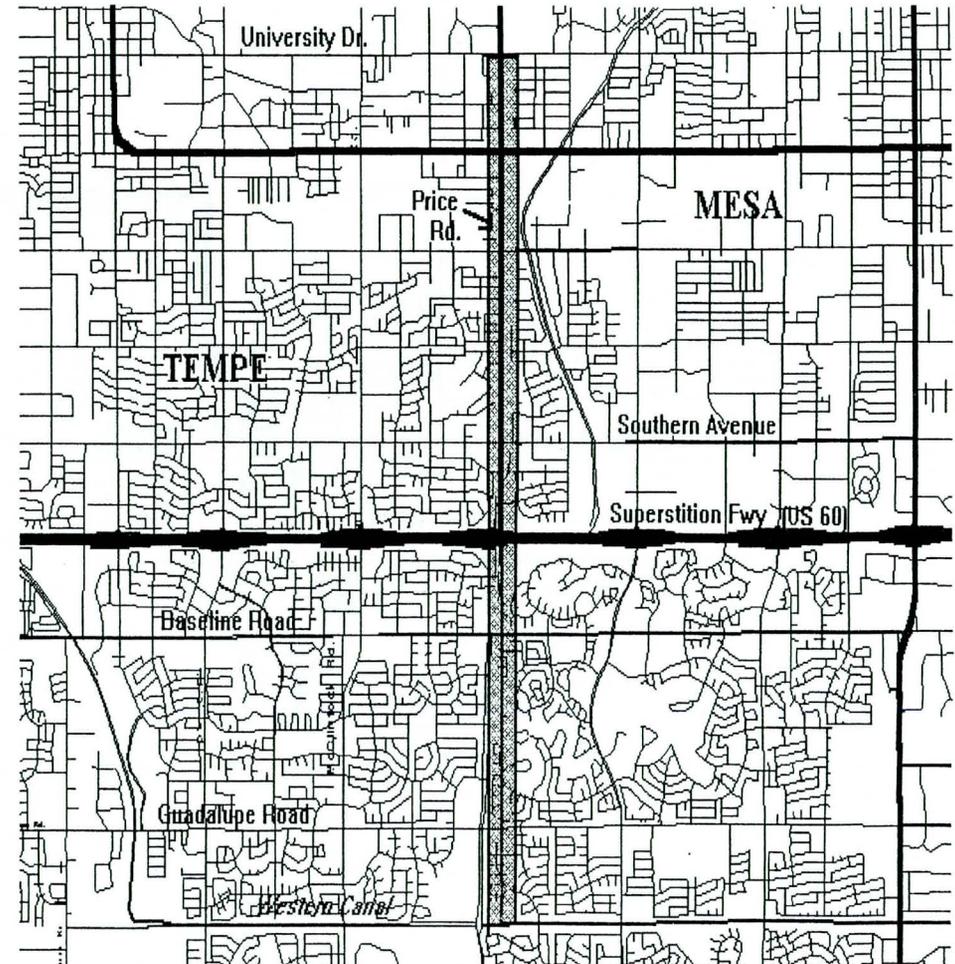
Supervisor District: 1

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 Carriage Lane Outfall pipe, from U.S. 60 south to Carriage Lane Park, will be completed in late 1996. This is the last component of the Price Road Drain and it will be fully operational upon the completion of the Carriage Lane Outfall.



SOUTH PHOENIX DRAINAGE IMPROVEMENTS

Activity Code: P6A117

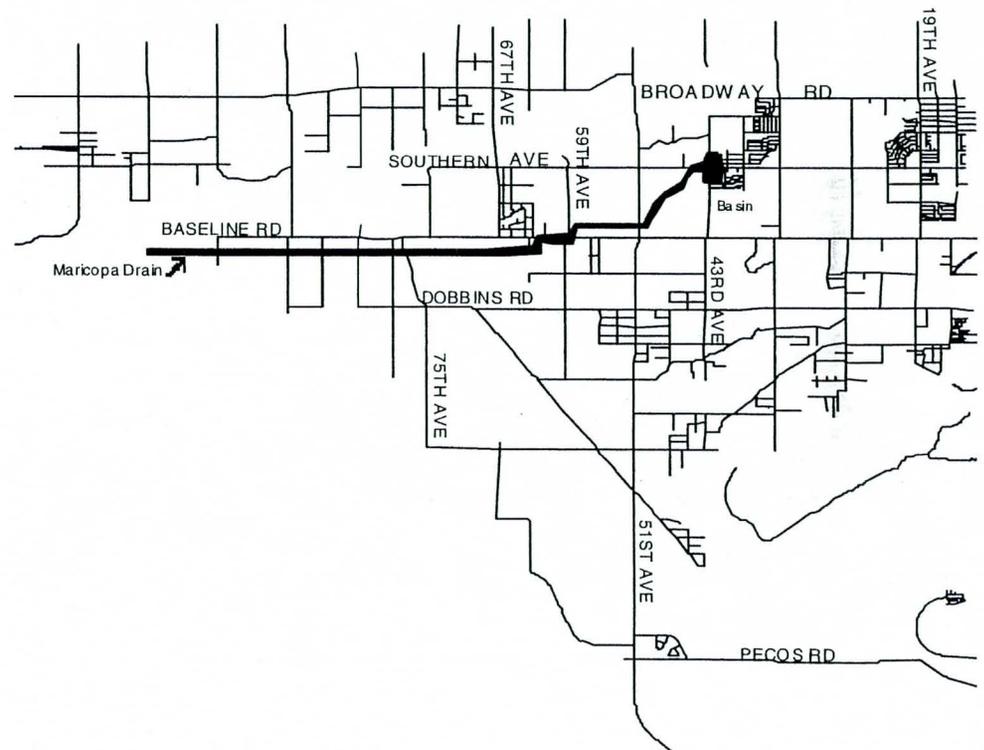
Supervisor District: 1, 5

Township/Range: T1N R2E; T1N R3E

Project Name: South Phoenix Drainage Improvements

This project will develop solutions for the 100-year flood event for approximately 100 homes and thousands of acres of farmland located within the City of Phoenix. Several homes within a subdivision located on the southeast corner of 43rd Avenue and Southern Avenue have experienced flooding on a regular basis. The watershed begins in the South Mountain Park and flows northwards to the Salt River, however, prior to entering the Salt River the water turns westerly and flows along the Maricopa Drain. During a 100-year flood event the watershed generates 2,200 cubic feet per second of water, and causes two to three feet of flooding throughout the project area.

An additional benefit of the project will be the reduction in the size of bridge planned by ADOT as part of the Southwest Loop. The funding majority will be provided by the District, with maintenance (O&M) being shared with the City of Phoenix.



SALT RIVER CHANNEL

Activity Code: P6A125

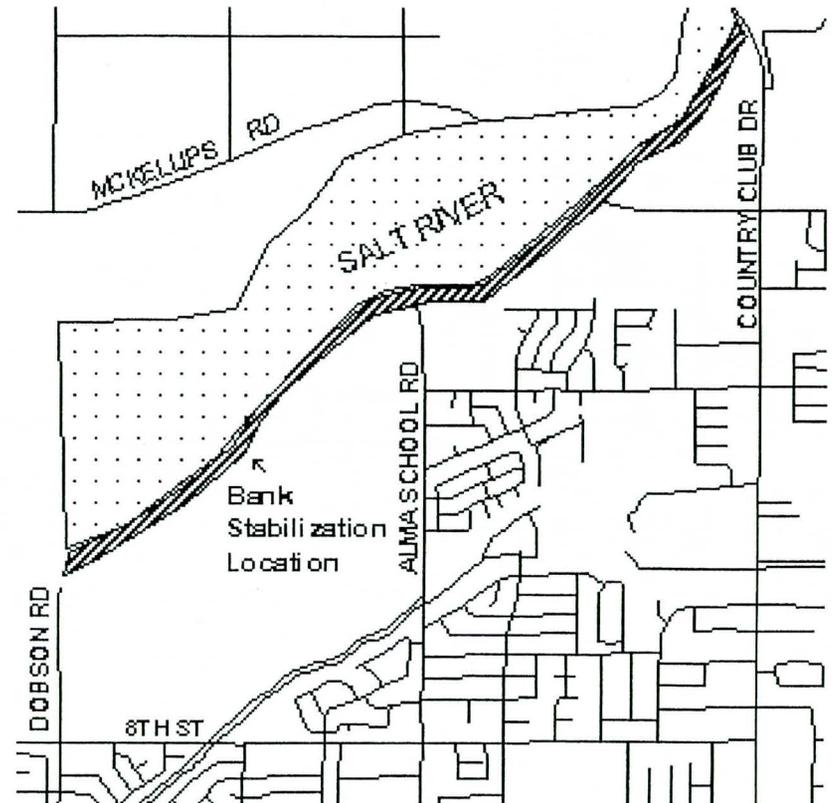
Supervisor District: 1,2

Township/Range: T1N R5E S 4,8,9

Project Name: Salt River Channel–Dobson to Country Club

This project includes improvements to the south bank of the Salt River to provide 100-year level of protection (215,000 cfs) from Dobson Road east to Country Club Drive. 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. This project is the last segment of work that will be constructed by ADOT along the Salt River. Using criteria provided by the District, ADOT will construct and fund the project to be completed in early 1998.

The District will assume future operations and maintenance of the bank protection/levee.



WICKENBURG ADMP

Activity Code: P6A343

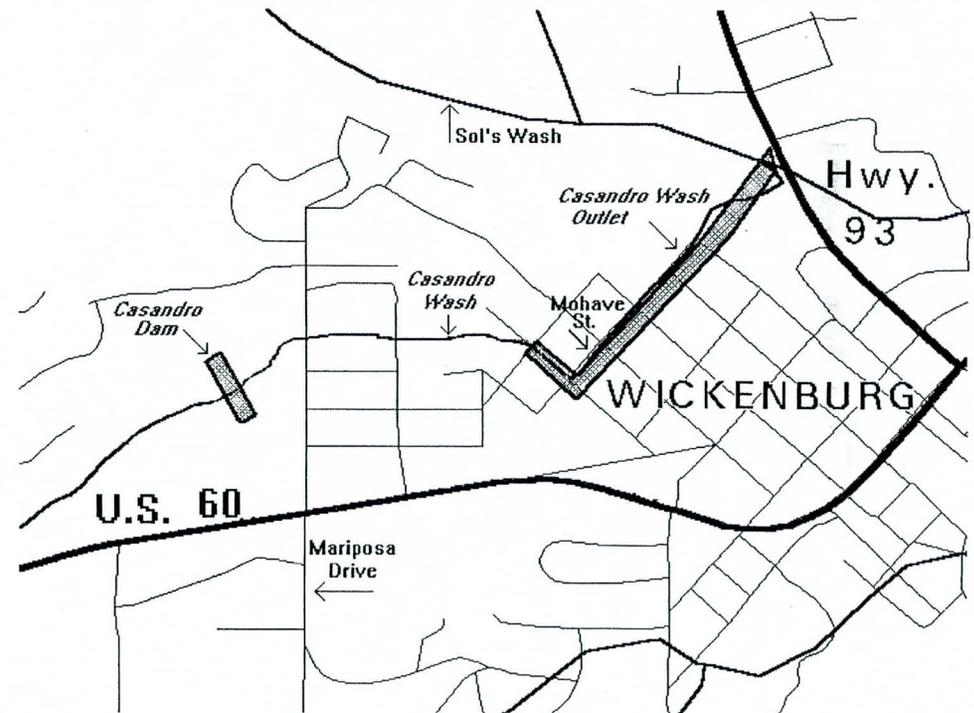
Supervisor District: 4

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.

Construction of the dam is anticipated to be completed by July 1996. The dam is located in Casandro Wash north of US Highway 60, approximately 1/4-mile east (upstream) of Mariposa Drive and will remove the majority of the floodplain. Casandro Wash Outlet, which, has been completed, begins, approximately 1/2-mile downstream of the dam and continues to Sol's Wash. It will recapture and convey flows from the dam through the neighborhood to Sol's Wash. The Town agrees to operate and maintain the outlet and has provided Town-owned rights-of-way to the District at no cost. The total project is estimated to cost \$3.5 million, including design, rights-of-way, and construction. Construction began in FY 95-96.



SKUNK CREEK

Activity Code: P6A362

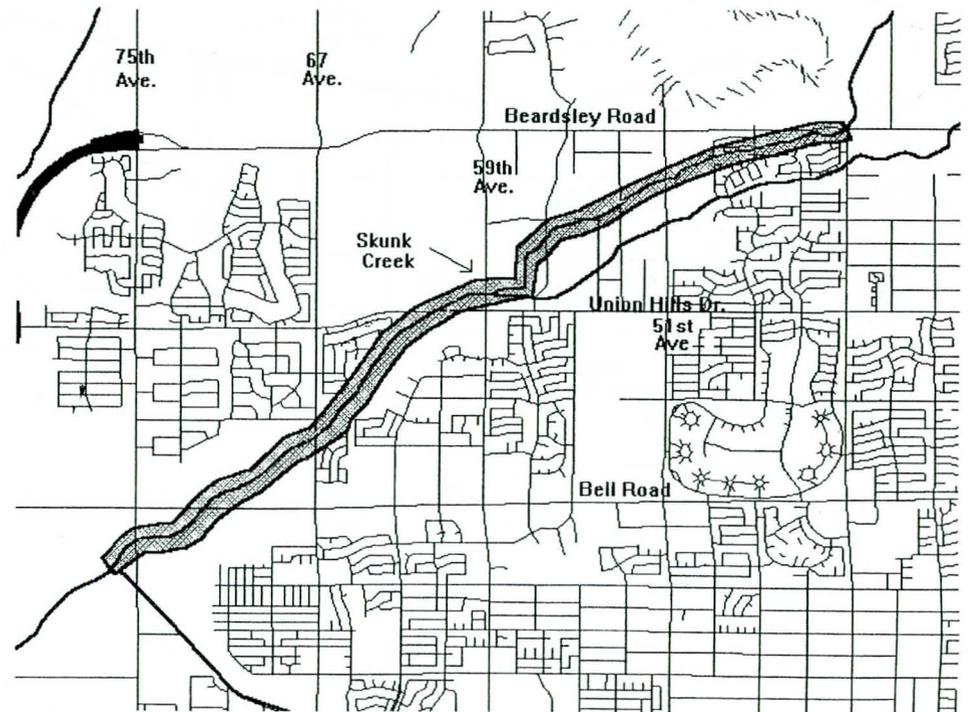
Supervisor District: 4

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

Project Name: ACDC To Adobe Dam

In an agreement with the COE, the District is responsible to assure 100-year capacity in Skunk Creek from Adobe Dam to the ACDC. Recent studies indicate that portions of the channel have been restricted, and the 100-year flows break out of the existing channel. Rapid development of the bordering properties has necessitated the completion of a pre-design study to determine 100-year capacity channel designs, including the need for grade control structures and the armoring of the channel banks in remaining unlined reaches.

Public participation has resulted in a multi-use concept designed to incorporate natural vegetation and provide access for pedestrian and equestrian uses, with bank armor buried to preserve a natural appearance. Total costs are estimated at \$10 million, with construction anticipated to be completed in two projects above and below Union Hills Drive. IGAs with the Cities of Glendale and Peoria to establish cost sharing and O&M responsibilities have been initiated. Acquisition of rights-of-way has begun and should be completed in FY 96/97.



NEW RIVER ADMP

Activity Code: P6A371

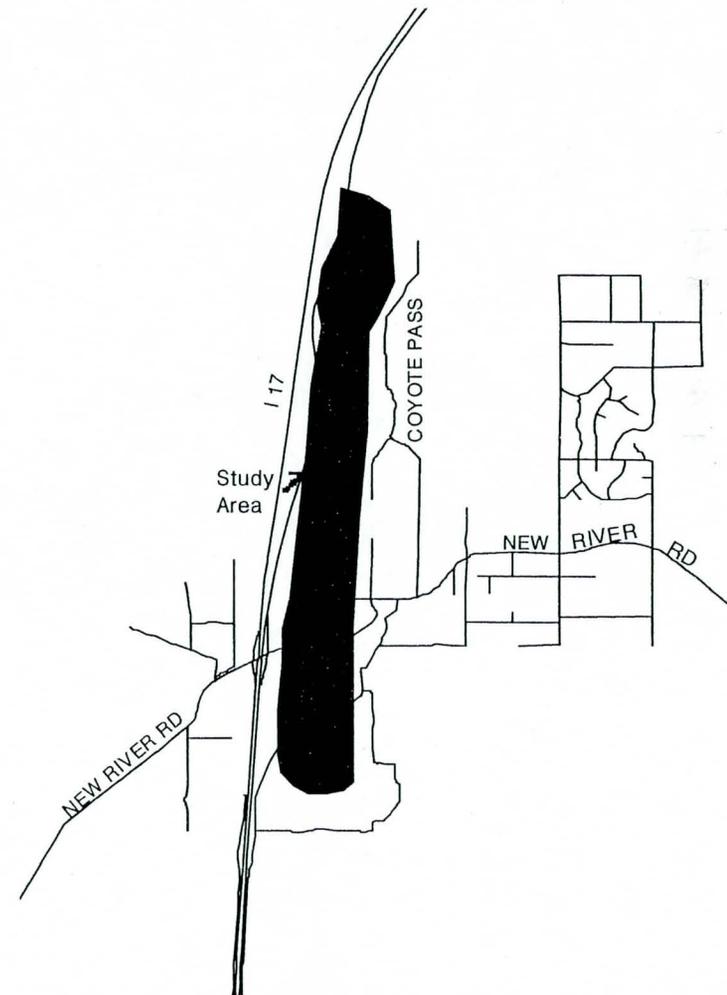
Supervisor District: 3

Township/Range: T7N R2E S22, 27

Project Name: Upper New River Flood Mitigation

There is a potential threat of loss of life for citizens residing in the floodplain the Upper New River, between New River Road and Table Mesa Road. In 1989, the District conducted a floodplain delineation of this river reach. During a 100-year event, flows were calculated to be up to 11 feet deep moving at 18-22 feet per second. Water of this depth and velocity is capable of floating houses off their building foundations, eroding material from under the foundations, or carrying large boulders which would destroy the structures. In January, 1993, flows estimated to be a 50-year event were recorded. A house was flooded, the channel bank of the river was eroded, and access to several dozen homes cut.

The recommended project alternative was to purchase the houses and relocate the residents rather than build a structure. The District contacted 34 property owners of which 15 accepted the buy-out offer. The cost of the buy-out and relocation, to date, has been \$1.9 million. The purchased houses are being demolished and the area will be allowed to return to natural conditions. The District is seeking a Resource Agency to oversee the property and manage it as natural habitat.



SKUNK CREEK/NEW RIVER

Activity Code: P6A400

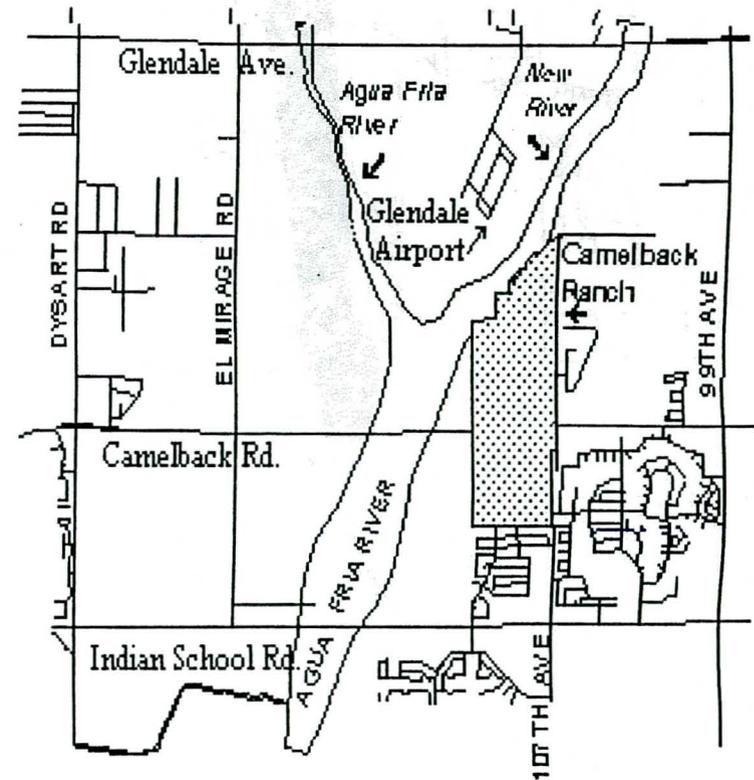
Supervisor District: 4

Township/Range: T2N R1E S18, 19

Project Name: Camelback Ranch

The Camelback Ranch property, 489 acres, was purchased from the Resolution Trust Corporation in order to fulfill the District's obligations under its 221 Agreement with the U.S. Army Corps of Engineers for the *Phoenix, Arizona and Vicinity (including New River) Flood Control Project*. The District proposes to construct levees to protect the property from New River and Agua Fria River flood flows. The levee will be constructed to meet the Corps' Standard Project Flood requirements and will be operated and maintained by the District. The estimated cost to design and build the levees and rezone the property is \$4.4 million.

Upon completion of the project, the remainder of the 489-acre property will be sold at public auction. The District estimates the potential revenue from this sale will be \$4.6 million, thereby, paying for the cost to protect the property.



AGUA FRIA - FLOWAGE EASEMENTS

Activity Code: P6A401

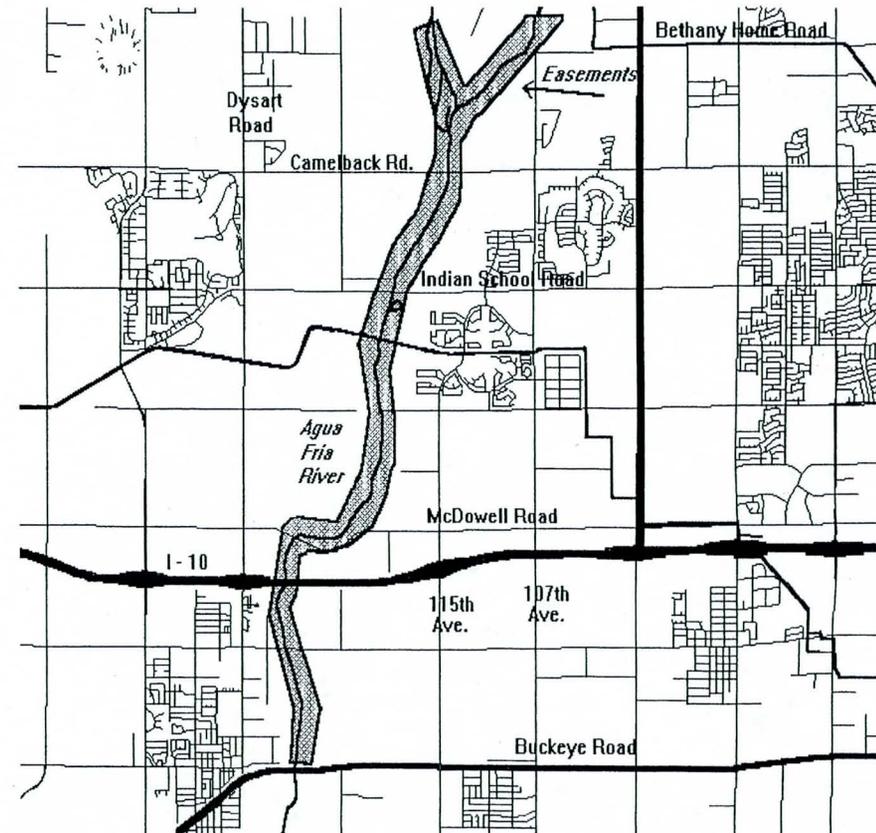
Supervisor District: 4, 5

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 in conjunction with the Agua Fria Channelization project, constructed 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 (including New River) Flood Control Project*.

All easements have been acquired. The budgeted funds are contract costs to respond to an appeal regarding a parcel acquired by the District through eminent domain near Southern Avenue and Dysart Road.



SOUTHEAST MESA ADMP

Activity Code: P6A442

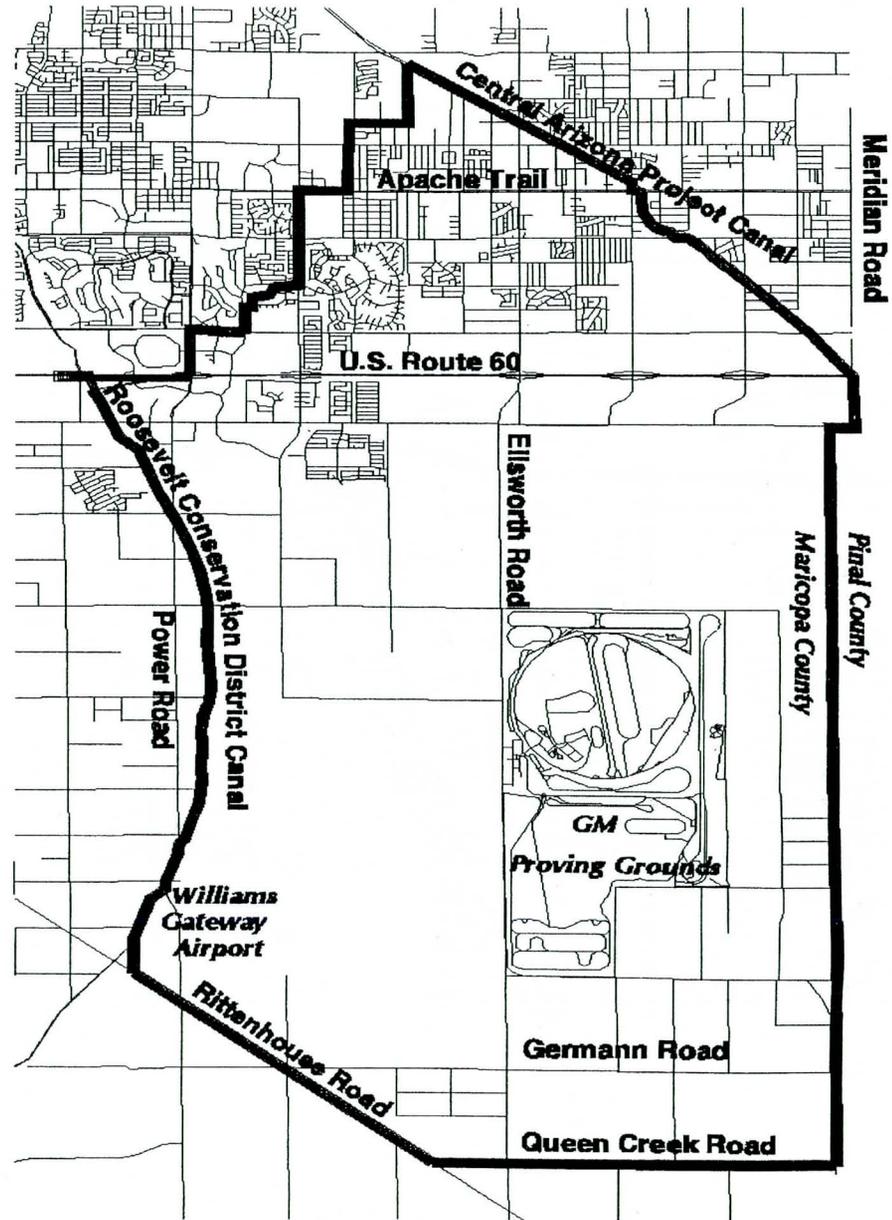
Supervisor District: 1

Township/Range: T1S R7E, T1N R7E

Project Name: Southeast Mesa ADMP and Ellsworth/ Germann Improvements

This project was requested by the City of Mesa to help alleviate flooding along Ellsworth and Germann Roads. The flooding along Ellsworth Road disrupts the primary access route to the General Motors Proving Grounds and along Germann Road to TRW's South Mesa Airbag Facility.

Hydrology for the 76.5 square mile study has been prepared in-house. A consulting firm has been contracted to determine solutions to the flooding problem using the hydrology prepared by the District. Funds have been budgeted in FY 96-97 to identify the design alternatives. The Ellsworth/Germann Improvements are currently scheduled for FY 99-00. It is anticipated that other projects will also be identified and that these will be implemented with other interested cost-sharing partners.



GLENDALE/PEORIA ADMP

Activity Code: P6A450

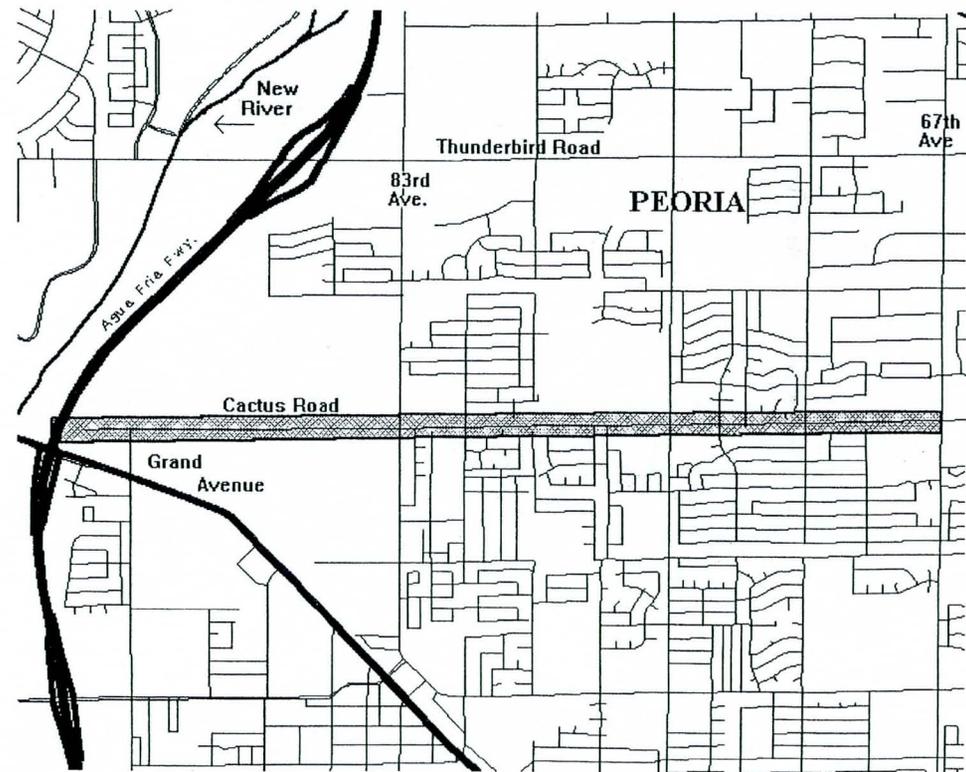
Supervisor District: 4

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 also provide an outlet for future municipal storm drains. Phase I, from the Agua Fria Freeway to 83rd Avenue, has been constructed in FY 95-96. Phase II is now under construction from 83rd Avenue to 75th Avenue. Phase III will follow in one year.

Total 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.



GLENDALE/PEORIA ADMP (continued)

Activity Code: P6A450

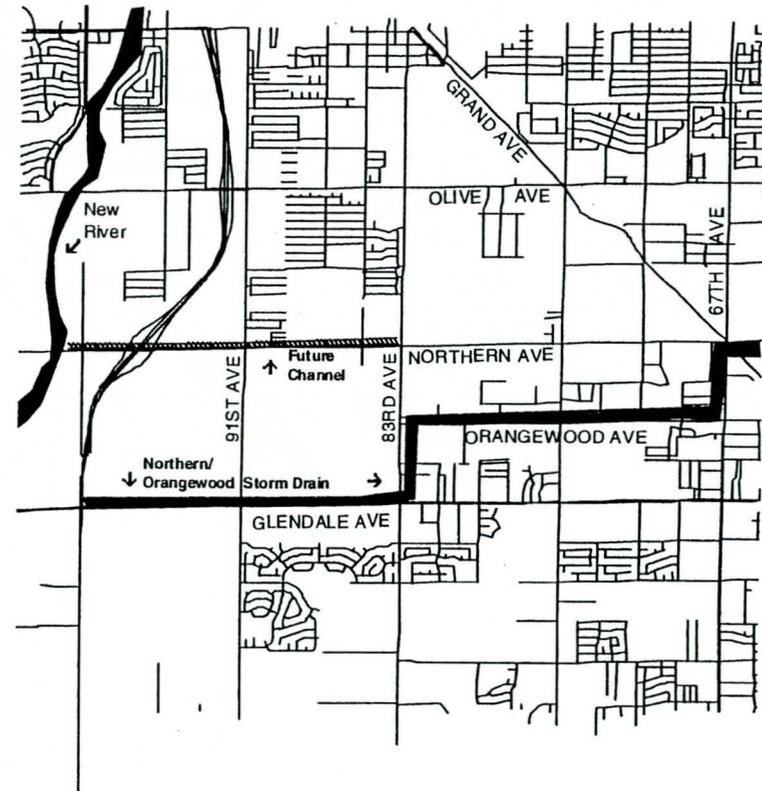
Supervisor District: 4

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 nine square miles of existing development in the unincorporated County, Glendale and Peoria that have been subjected to several flood events in the past four years. The drain will also provide an outlet for future municipal storm drains and ADOT's Grand Avenue project. The District plans to construct three detention basins (possibility two in Glendale and one in 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 \$17 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

Activity Code: P6A460

Supervisor District: 3 Township/Range: T4N R3E; T3N R3E

Project Name: Rosemont Drive Lateral

This project includes buried drainage conduit to convey the 100-yr. runoff to Detention Basin # 2. The lateral begins in Rosemont Dr. east of 12th St. In all, the components of the East Fork Cave Creek project (5 basins, 1 channel and 4 laterals) will collect runoff from 16-sq. miles.

Project Name: Utopia Road Lateral

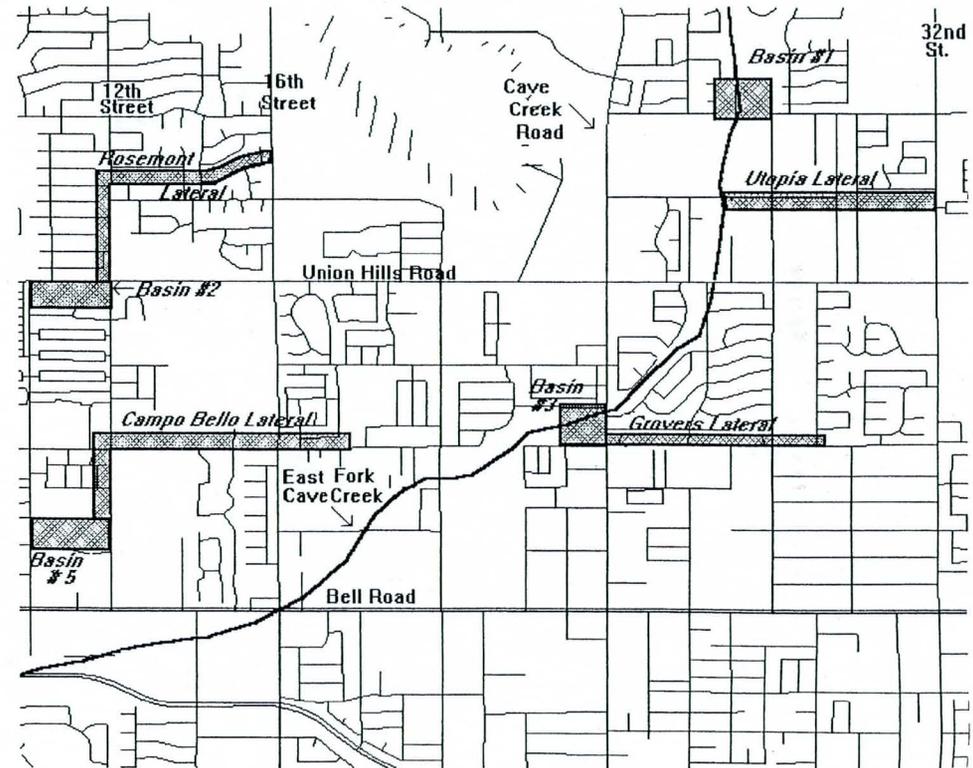
This project includes buried drainage conduit to convey the 100-yr. runoff to the East Fork Cave Creek channel. The lateral begins east of 32nd St. and runs west underneath Utopia Rd. to the EFCC channel.

Project Name: Grovers Avenue Lateral

This project includes buried drainage conduit to convey the 100-yr. runoff to Detention Basin #3. The lateral begins west of 32nd St. and runs west under Grovers Ave. to the west side of Cave Creek Rd. Basin

Project Name: CampoBello Drive Lateral

This project includes buried drainage conduit to convey the 100-yr. runoff to Detention Basin #5. The lateral begins at 18th St. and runs east under Grovers Ave. to 12th St., where it turns south to Basin #5. Most of the construction has been completed and the budgeted funds reflect the final payment to Phoenix.



WHITE TANKS ADMP

Activity Code: P6A470

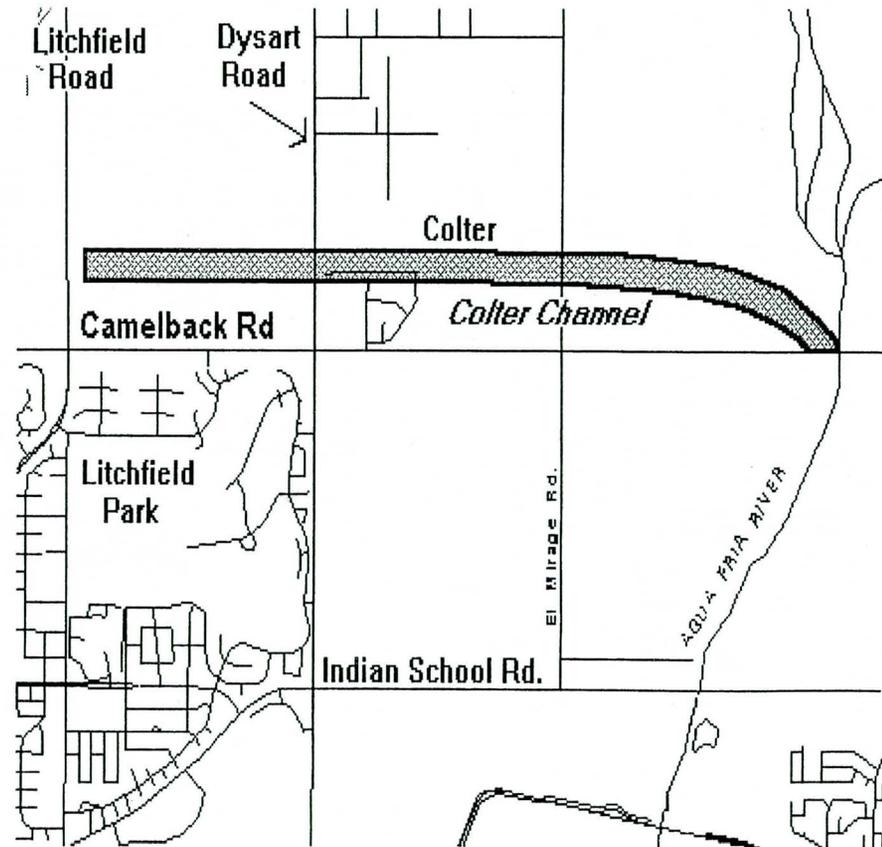
Supervisor District: 4, 5

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, which has been constructed, intercepts and conveys 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 also eliminates a portion of an "A" Zone floodplain, removing about 20 homes from the floodplain.

Construction is complete and the remaining funds in the 5-Year CIP are for settlement costs associated with rights-of-way acquisitions.



WHITE TANKS ADMP (continued)

Activity Code: P6A470

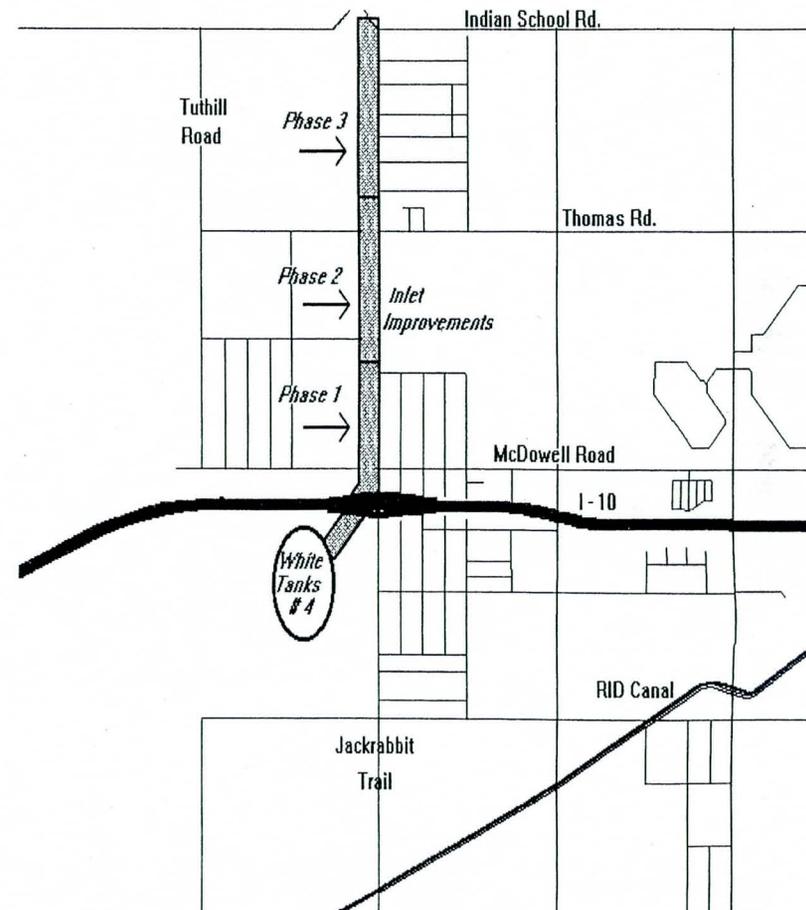
Supervisor District: 5

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 storm water 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

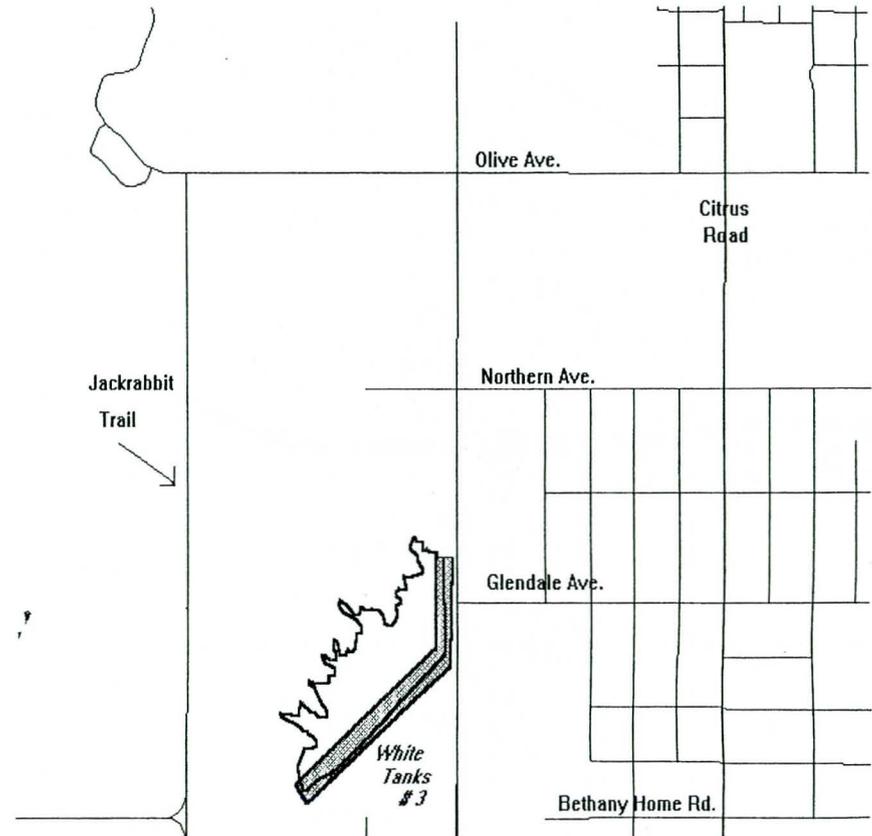
Supervisor District: 5

Township/Range: T2N R2W S4, 8-9

Project Name: White Tanks #3 FRS Modifications

This project involves the rehabilitation of the White Tanks #3 Flood Retarding Structure (FRS) to bring it up to current Arizona Department of Water Resources standards. The Natural Resources Conservation Service (formerly SCS) is the Federal sponsor for the project. They will be responsible for assuming all costs associated with the modification of the FRS.

The improvements, to be performed by the NRCS, include re-establishment of the crest of the dam, construction of an emergency spillway, and improvements to the reservoir behind the FRS.



WHITE TANKS ADMP (continued)

Activity Code: P6A470

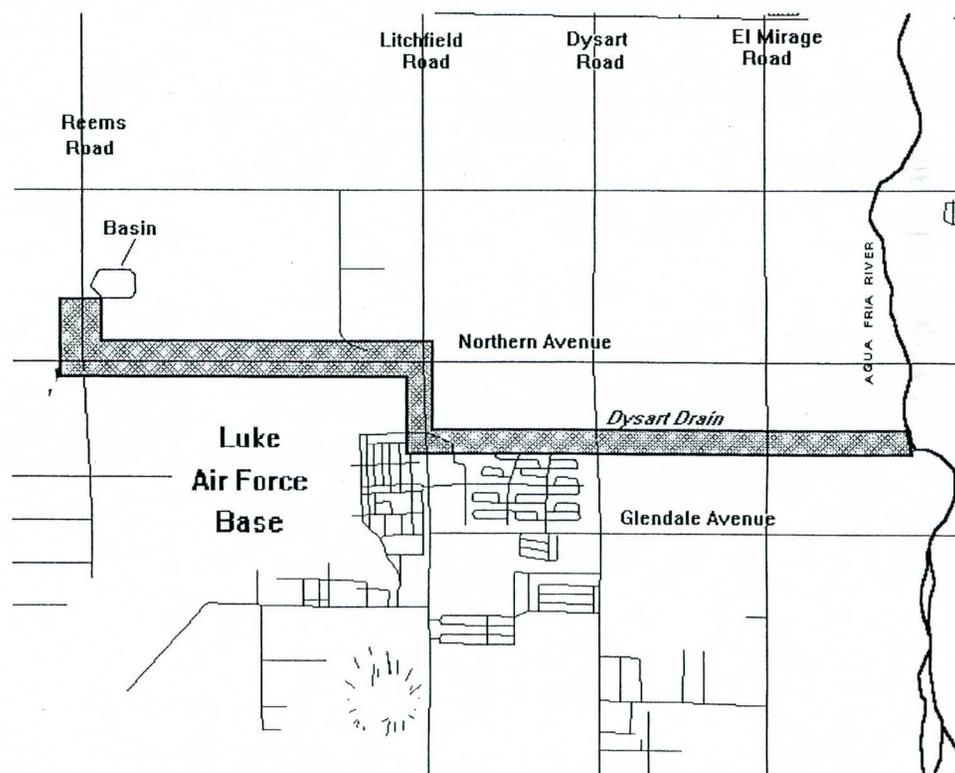
Supervisor District: 4

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 \$12,500,000, to be shared between the District and LAFB, with the LAFB cost share capped at \$6,000,000. Construction is to be completed in three phases. The Phase I basin and Phase II bridges are complete. Phase III channel improvements are underway and will be completed in October 1996. LAFB will provide all operation and maintenance, with the exception of one collector channel feature.



WHITE TANKS ADMP (continued)

Activity Code: P6A470

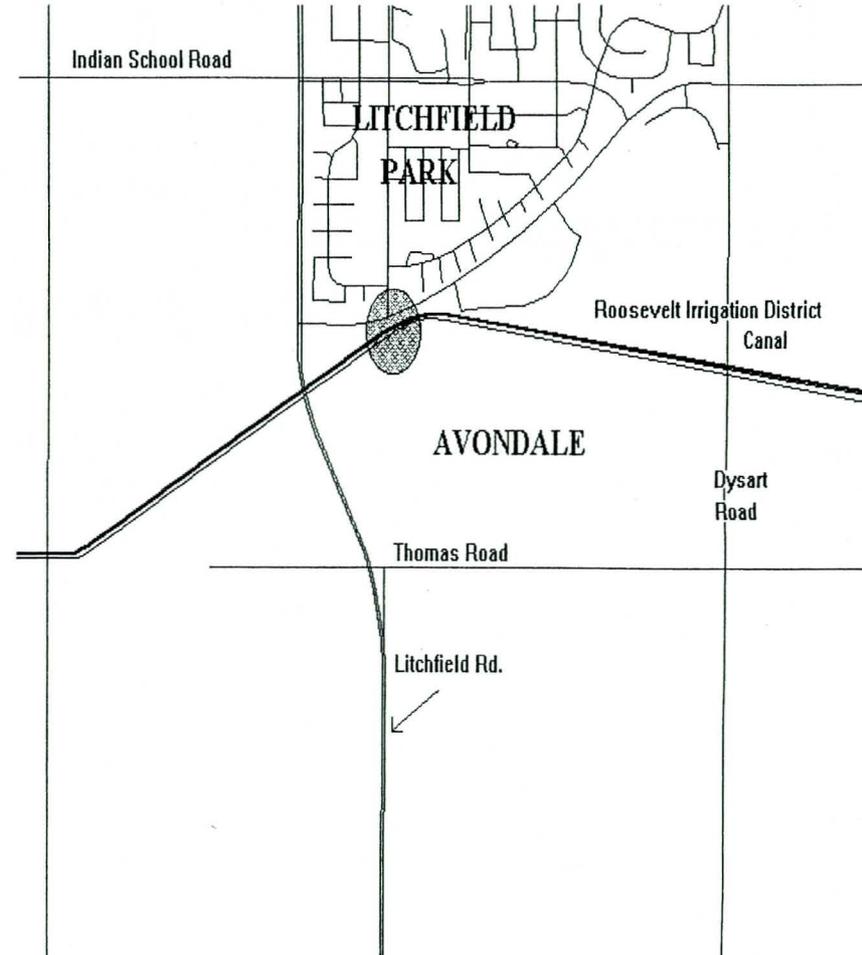
Supervisor District: 4

Township/Range: T2N R1W S27

Project Name: RID Canal Overchute

This project includes a 100-year capacity (1500 cfs) overchute of the Roosevelt Irrigation District Canal at the Old Litchfield Road alignment which will discharge into an existing channel built by SunCor. Various drainage collector channels will convey flows to the overchute. 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 now estimated at \$1.6 million. Alternatives identified during the project design estimate the District cost to be about \$1,100,000. SunCor have already invested \$220,000 for work on the related side drainage and outfall channel. RID and SunCor will donate right-of-way and Litchfield Park, Avondale and SunCor will provide for future operations and maintenance for the project.



WHITE TANKS ADMP (continued)

Activity Code: P6A470

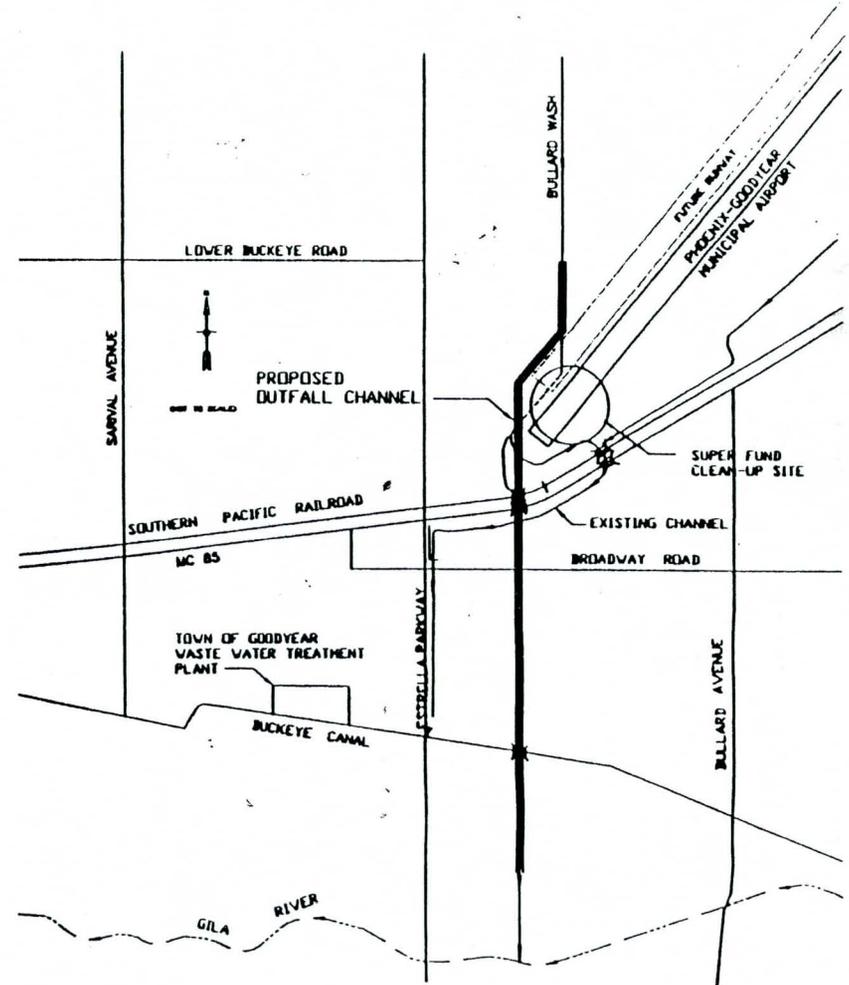
Supervisor District: 4

Township/Range: T1N R1W S20, 29

Project Name: Bullard Wash Outfall Channel

The project, identified in the White Tanks/Agua Fria ADMS, includes a two-mile outfall channel from Lower Buckeye Road to the Gila River for the 100-year Bullard Wash flows (3,200 cfs). Existing structures and channels in the drainage corridor are inadequate and result in flows that overtop the Southern Pacific RR, MC 85 highway, and the Buckeye Irrigation District Canal. The project will reduce flood hazards for the City of Goodyear's waste water treatment plant, the Phoenix/Goodyear Airport, several hundred acres of agricultural land, the Palo Verde Nuclear Power Plant water supply pipeline, a sanitary sewer pipeline, and three petroleum pipelines.

The project will also provide protection to clean-up facilities for a Superfund ground water contamination site and allow for coordination with MCDOT on two of its projects. A pre-design study has been completed, and total project costs are estimated at \$7.6 million. IGAs with the City of Goodyear and MCDOT have been initiated to establish cost sharing and O&M responsibilities.



QUEEN CREEK ADMP

Activity Code: P6A480

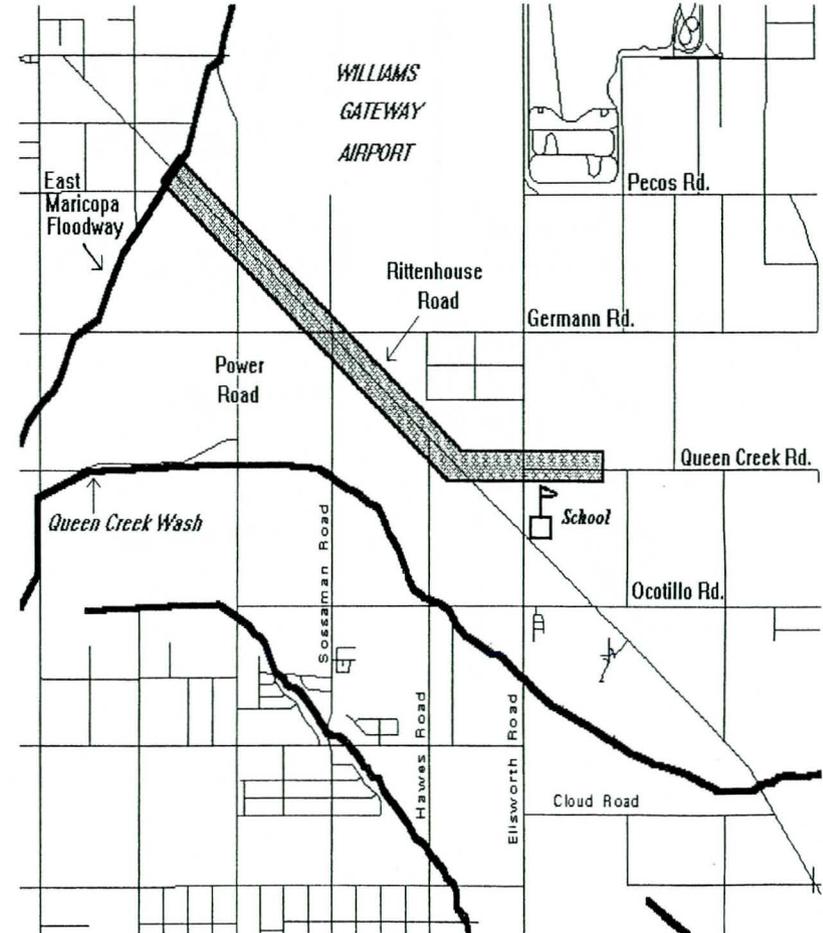
Supervisor District: 1

T/R: T1S R6E S36; T2S R6E S1; T2S R7E S6, 8-9, 15

Project Name: Rittenhouse Drainage Improvement

The project consists of an earthen channel adjacent to the Southern Pacific Railroad between the Queen Creek School east of Ellsworth Road and the East Maricopa Floodway west of Power Road. The six mile long project includes portions of Queen Creek, Mesa and Gilbert. The channel will provide 100-year protection for the school, contain the FEMA 100-year floodplain, and provide an outfall for future storm drain construction. In accordance with an IGA, the Town of Queen Creek will acquire the project rights-of-way. Costs for construction are estimated at \$5.0 million (100% District).

Approximately \$650,000 in project costs have been saved through advance construction of a portion of the channel by the Air Force Base Conversion Agency near Williams Gateway Airport. This construction was completed by the Agency in exchange for the District's purchase of the necessary rights-of-way. Phase I construction is scheduled to start in July 1996 and is estimated to cost \$1.5 million.



GILBERT/CHANDLER ADMP

Activity Code: P6A490

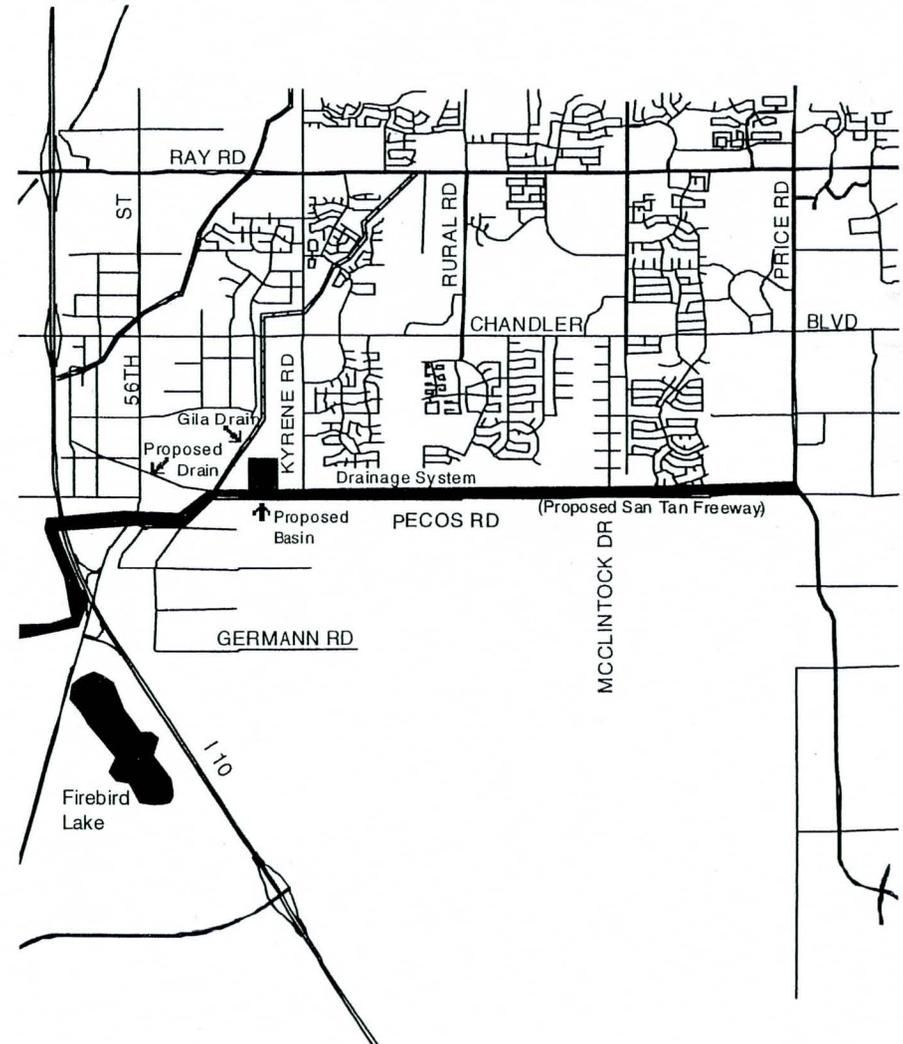
Supervisor District: 1, 5

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. The project will also protect areas of the Gila River Indian Community (GRIC) located south of Pecos Road and west of Price Road from off-Community flows.

The SEVRDS is addressed in the Gilbert/Chandler ADMS and is an integral component of Chandler's storm water master plan. Total cost is estimated at \$24 million. Alternatives to the original concept are being developed in cooperation with ADOT, the GRIC, Chandler and SRP. The District's cost share is estimated at \$10.6 million. Chandler will provide interim O&M until the freeway is constructed by ADOT.



ACDC ADMP

Activity Code: P6A580

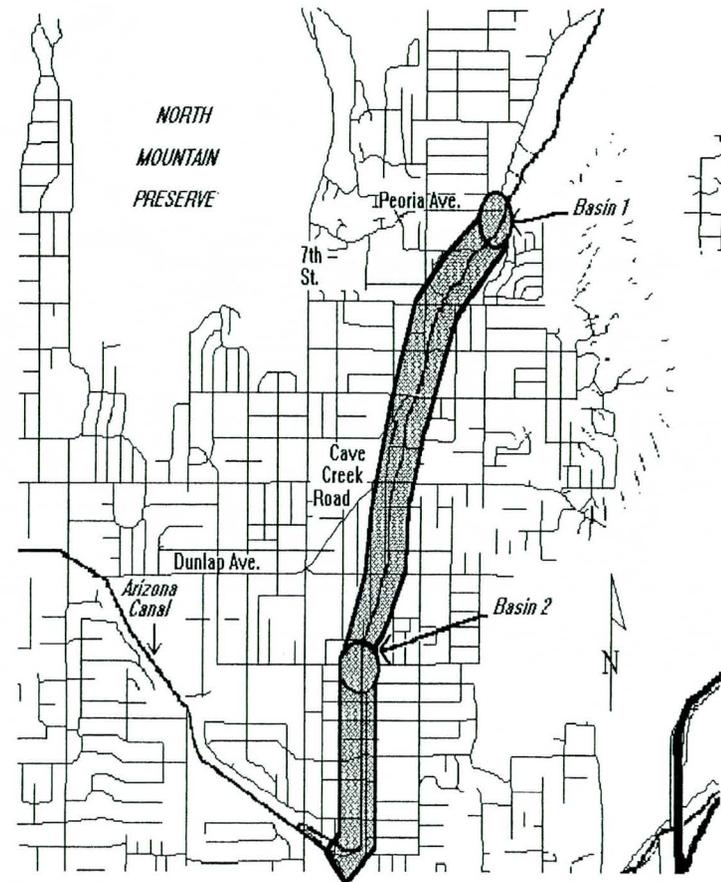
Supervisor District: 2, 3

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 to the south through an urbanized 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 70% and preparation of a Feasibility Study to develop alternative wash improvements to remove the remaining floodplain. Phase II may implement channel improvements recommended in the Feasibility Study.

Total Phase I costs are estimated at \$5.25 million (100% District). The District has worked with local residents and the City to develop locally-maintained, mixed-use applications within the basins. Construction of detention basin I is complete. Construction of basin II began in April 1996 and will be completed in March 1997.



ACDC ADMP (continued)

Activity Code: P6A580

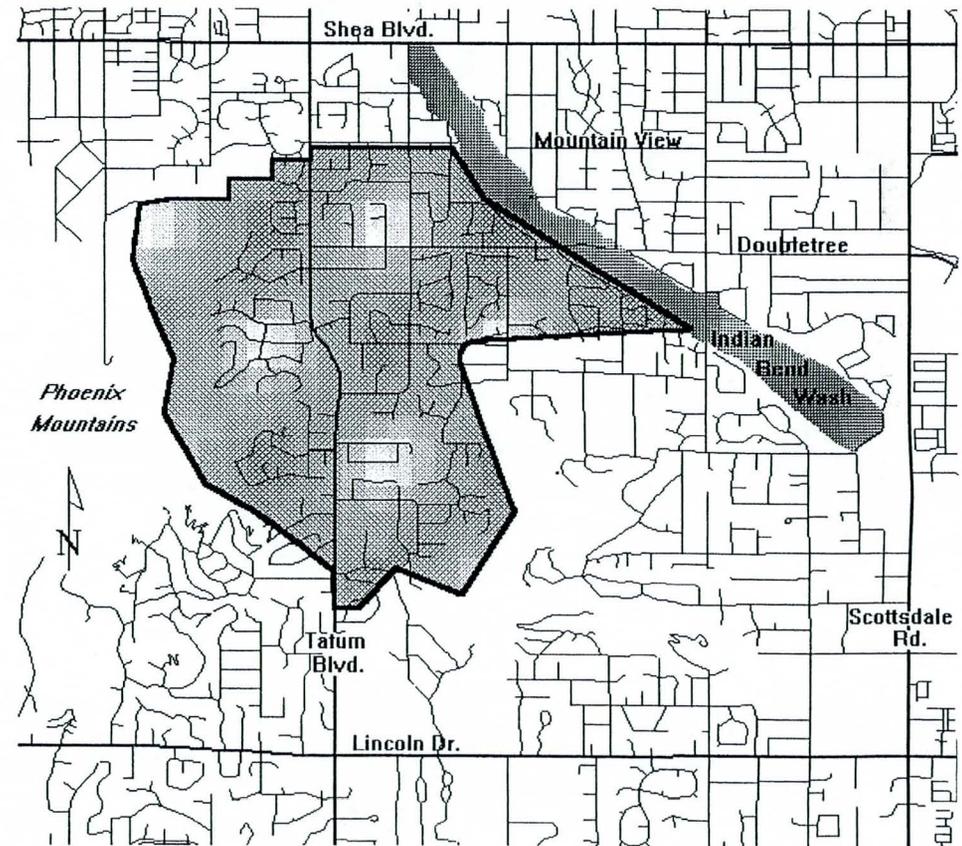
Supervisor District: 2

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

Project Name: Doubletree Ranch Road Drain

This project will develop solutions for the flooding problems that exist within a mostly built out residential area of the Town of Paradise Valley. Several homes along Doubletree Ranch Road have experienced flooding during recent storms, and children have been stranded at a local grade school which becomes inaccessible during heavy rains.

Two major watersheds, Doubletree Ranch Road and Cherokee Wash, exist within the project area. Doubletree Ranch Road watershed begins in the Phoenix Mountain Preserve west of Tatum Boulevard and flows eastward along Doubletree Ranch Road to Indian Bend Wash. Cherokee Wash, which is located south of Doubletree Ranch Road watershed, also begins in the Phoenix Mountain Preserve west of Tatum Boulevard, but then flows northeast to Indian Bend Wash. The District has committed funding for the pre-design study, and the design of the preferred alternative. An Intergovernmental Agreement still needs to be developed between the District and the Town of Paradise Valley to identify funding sources for the construction cost. The Town of Paradise Valley will be responsible for providing maintenance (O&M) for the project.



ACDC ADMP (continued)

Activity Code: P6A580

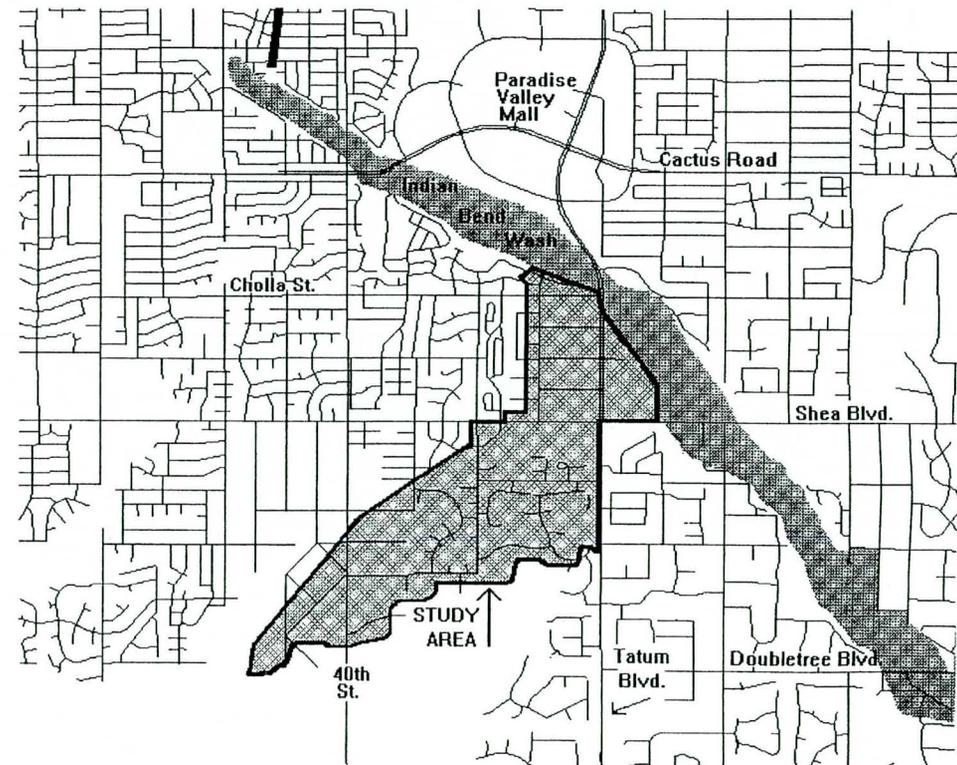
Supervisor District: 2, 3

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

Project Name: Tatum Wash Channel

This project will develop solutions for the flooding problems that exist within a residential area of the City of Phoenix. Several homes located northwest of Tatum and Shea Boulevards have experienced severe flooding during recent storms. The flooding has been severe enough for the Phoenix to recognize this area as one of its' worse flooding areas. The watershed begins in the Phoenix Mountain Preserve south of Shea Boulevard and flows north-northeast to Indian Bend Wash. There are no delineated flood plains within the project area, however, it is estimated that more than 350 structures would be flooded by the 100-year flood event. The 100-year flood event would have a peak discharge of 2,000 cubic feet per second and flood more than 500 acres of residential and commercial property.

A majority of the pre-design and design costs will be assumed by the District. An IGA will be developed between the District and Phoenix to identify & determine cost-sharing and maintenance (O&M) responsibilities.



ACDC ADMP (continued)

Activity Code: P6A580

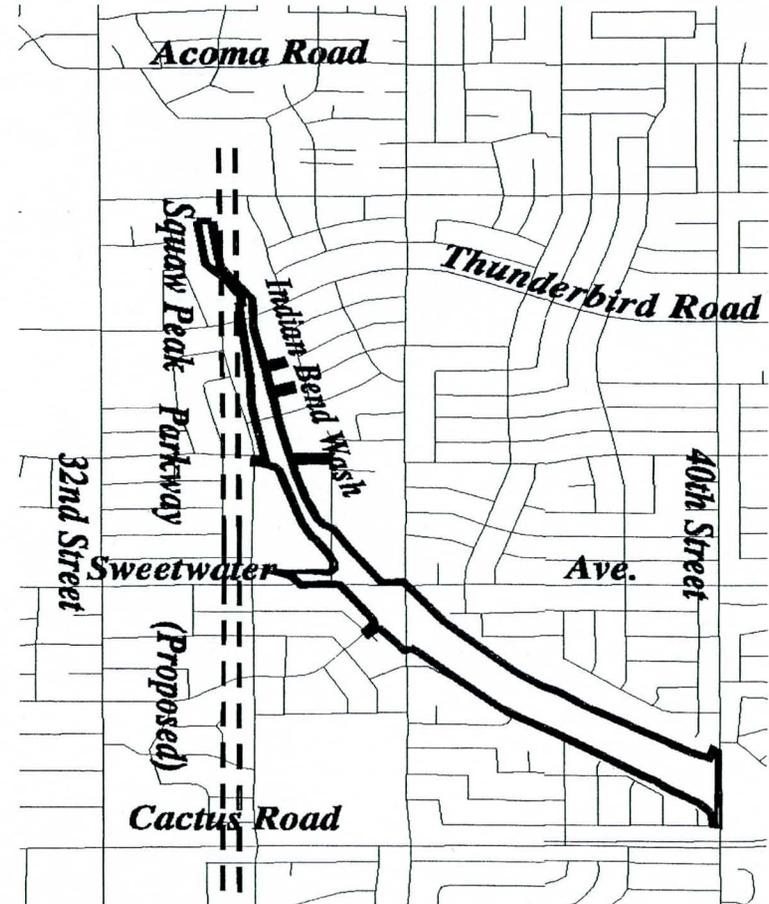
Supervisor District: 3

T/R: T3N R3E S12, 13 & 24

Project Name: Squaw Peak LOMR

This project, The Squaw Peak LOMR or Letter Of Map Revision, is a complementary project to the Indian Bend Wash (IBW) channel improvements that will be built as part of ADOT's construction of the Squaw Peak Freeway (SR 51). The Squaw Peak LOMR project includes construction of an additional box culvert at Sweetwater Ave. and submittal of a LOMR to FEMA for the reduced IBW flood plain. The flood plain will be reduced by more than 360 acres, affecting as many as 1,000 homes. ADOT and the City of Phoenix have a separate IGA for the SR 51 required improvements to the IBW. The District and Phoenix will have an IGA for the additional box culvert and LOMR.

It is estimated that the LOMR will cost \$30,000 and the box culvert approximately \$60,000. The culvert costs will be shared equally between Phoenix and the District. The District will pay for the LOMR in an existing flood plain re-delineation study.



MARYVALE ADMP

Activity Code: P6A620

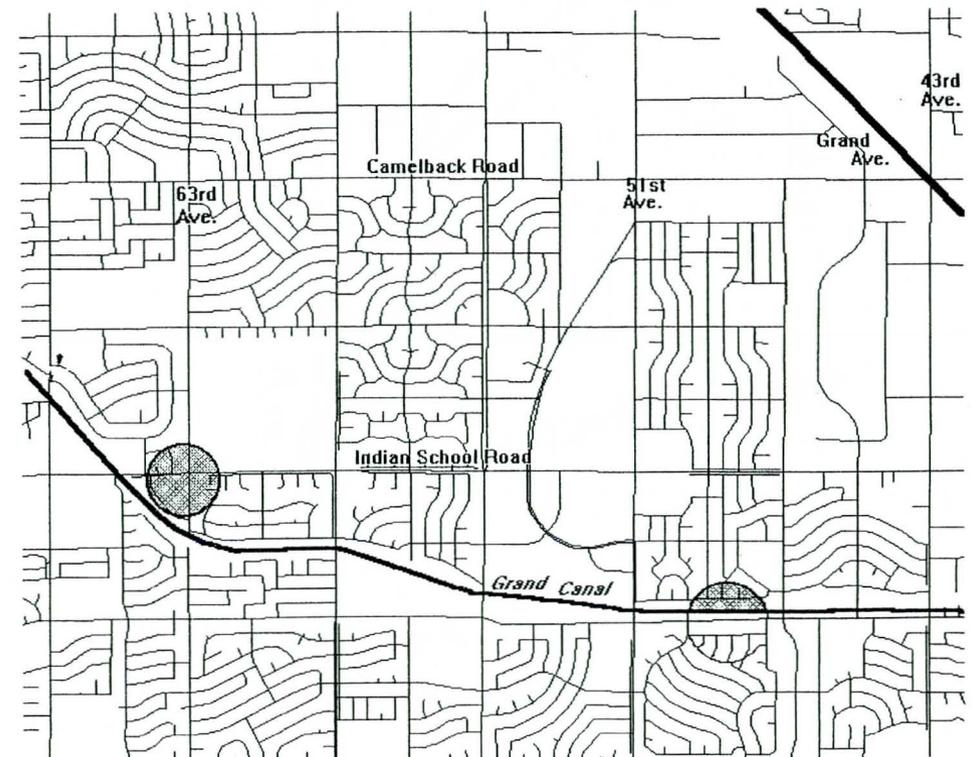
Supervisor District: 5

Township/Range: T2N R2E

Project Name: Maryvale Flooding Mitigation Project

Flooding along the north bank of the Grand Canal, between 43rd Avenue and 64th Avenue, results in frequent flooding of approximately 150 houses.

The project includes construction of two detention basins discharging into existing storm drains and modifications to existing streets and storm drains to divert flows into the basins. The proposed basins will be designed to store runoff from a 10-year storm. A basin located at 51st Avenue and the Grand Canal will be constructed as a multi-use facility incorporating flood water storage into a Cactus League stadium development by depressing a parking lot and practice field(s). The 63rd Avenue basin will require removal of thirty-five (35) existing houses, relocation of existing residents, construction of a detention basin, and modification of existing streets and storm drains. The basins are estimated to cost approximately \$4.5 million each.



UIBW ADMP

Activity Code: P6A680

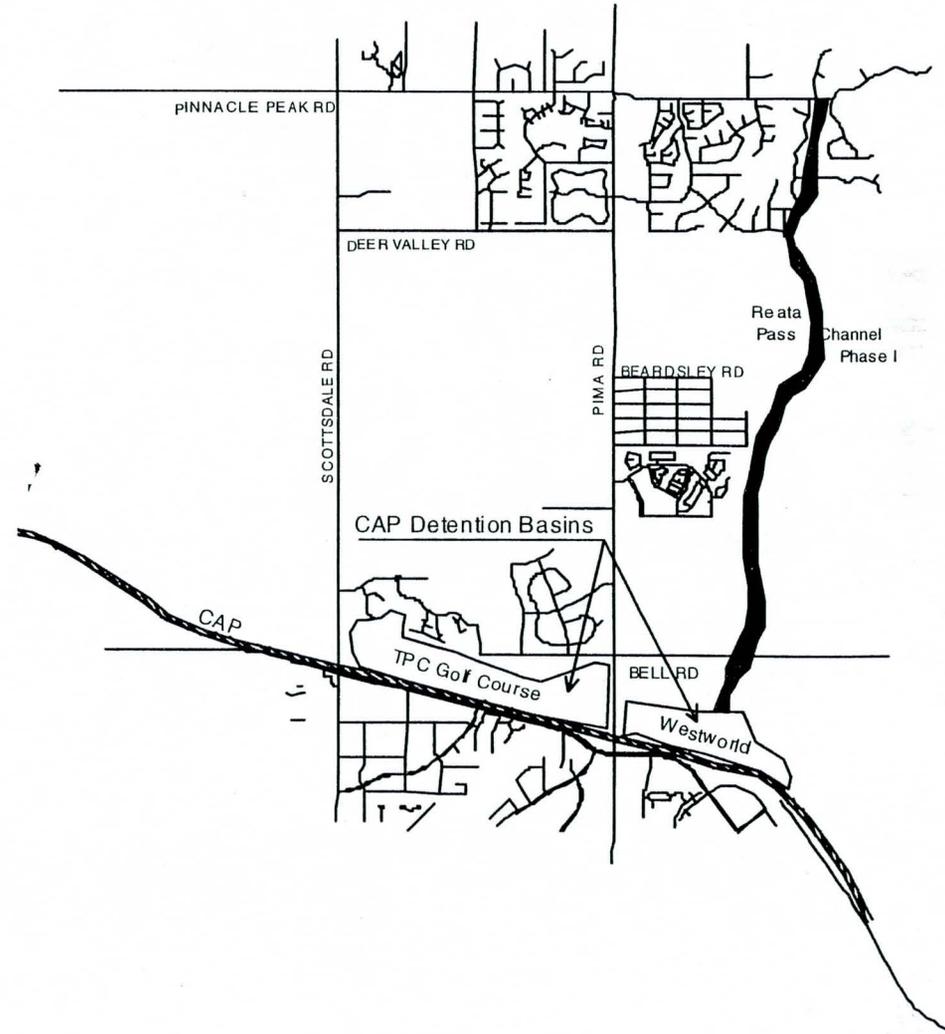
Supervisor District: 2

Township/Range: T4N R5E S8, 17, 20, 29, 32

Project Name: Reata Pass Channel

This project includes a 100-year channel (11,500-16,700 cfs) between Pinnacle Peak Road and the Central Arizona Project canal detention basin at Westworld that will protect 750 existing 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 at the CAP allowing for potential recharge and water quality enhancements. The project is planned to provide 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 are estimated at \$22 million, with approximately 50% by the District. Phase I channel design has begun under an IGA with Scottsdale. The City will provide for future operations and maintenance of the constructed features.



UIBW ADMP (continued)

Activity Code: P6A680

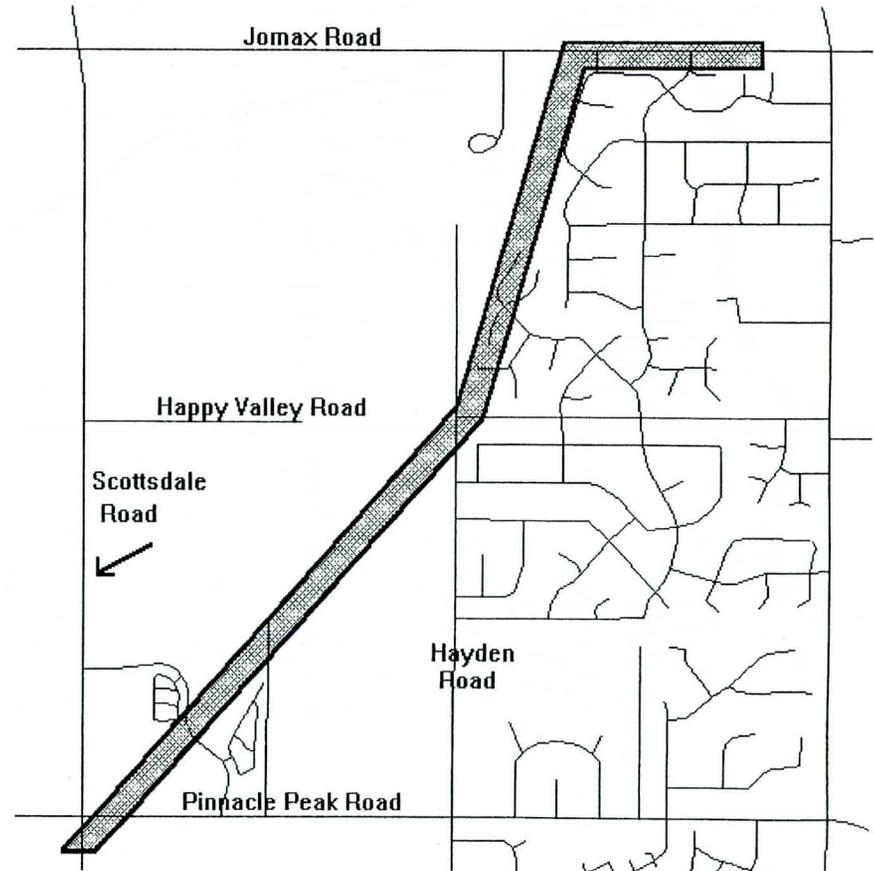
Supervisor District: 2

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

Project Name: Rawhide Wash Improvements

The current project option includes a 100-year channel (11,000 cfs) between Jomax Road and Pinnacle Peak Road that will protect 240 homes, 25 commercial structures and a 160-acre theme park from flows 1-3' deep. A second option being considered is a large detention basin facility on property owned by the State Land Department north of Jomax Road. This option would potentially eliminate the need for large-scale channel improvements downstream to the CAP. The project will allow for future removal of 4.5 square miles of 100-year floodplain in Scottsdale and 6.1 square miles in Phoenix.

Under either project scenario, flows will be conveyed into a regional detention basin upstream of the CAP canal, which will allow for potential recharge and water quality enhancements. The project is also planned to serve future recreational needs. Total costs for the project are estimated at \$14.4 million for the channel option (to Pinnacle Peak Road only) and \$15.6 million for the detention basin option. Funding and maintenance responsibilities may vary substantially between the two options.



UIBW ADMP (continued)

Activity Code: P6A680

Supervisor District: 2

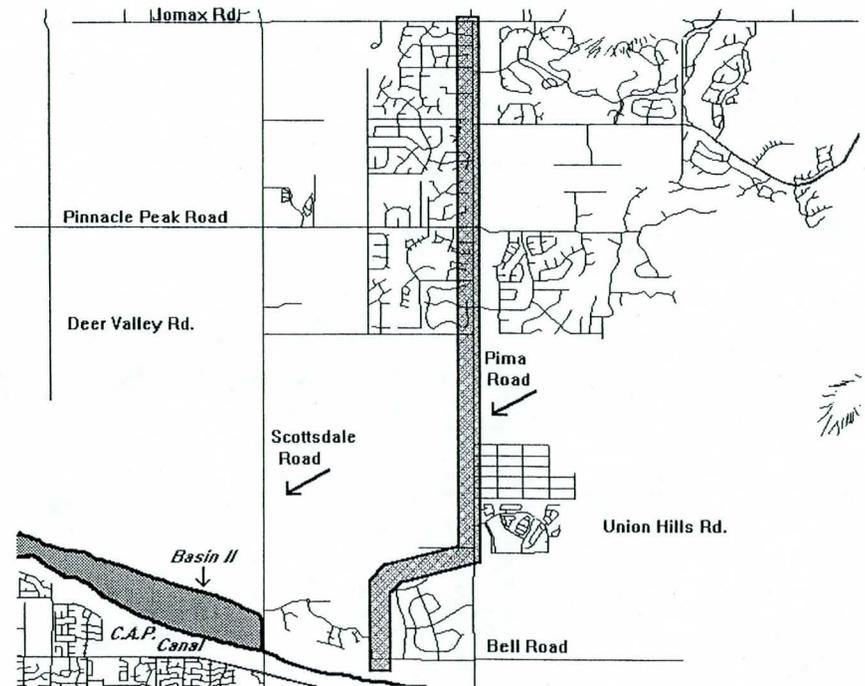
Township/Range: T4N R4E S24-25, 36;

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 the CAP detention basin at the TPC Golf Course that will protect 1250 homes, 40 commercial structures and a water treatment plant from flows < 1' deep originating in a watershed of seven square miles. The project is a major component of the UIBW ADMP. Flows will be conveyed into a regional detention basin allowing for potential recharge and water quality enhancements. The project is planned to serve future recreational needs. The channel also reduces drainage requirements along the Pima Road and Loop 101 corridors.

Total costs for the project are estimated at \$28.1 million, with up to 50% by the District. Phase I channel design has begun under an IGA with Scottsdale for the area between the CAP and Deer Valley Road. The City will provide for future operations and maintenance of the constructed features.





Appendix C: Status Report on FY 96/97 Prioritization Procedure

Table 1

Project List for CIP Prioritization Procedure - FY 96-97

	Project Name	Sponsor	Location	Est. Cost	FCD Cost
	<i>*New Requests (for Pre-design):</i>				
1	Ashbrook/Balboa Wash Improvements	Ftn. Hills	Northern portion of Fountain Hills	\$1,330,000	\$798,000
2	Bethany Home Rd. Outfall Storm Drain	Glendale	New River to 75th Ave.	\$15,150,000	\$11,362,500
3	59th Avenue Storm Drain	Glendale	Olive Ave. to Brown St.	\$530,000	\$265,000
4	67th Avenue Storm Drain - Phase I	Glendale	Peoria Ave. to Cactus Rd.	\$1,685,000	\$842,500
5	67th Avenue Storm Drain - Phase II	Glendale	Cactus Rd. to Az. Canal Diversion Channel	\$2,595,000	\$1,297,500
6	Broadway Road Channel	Mesa	Power Rd. to 56th St.	\$7,000,000	\$3,500,000
7	C.A.P. Overshoot Collection System	Mesa	University Dr. to Superstion Freeway	\$10,000,000	\$7,500,000
8	Southern Ave. Storm Drain - Phase I	Mesa	78th St. to Ellsworth Rd.	\$1,000,000	\$500,000
9	Southern Ave. Storm Drain - Phase II	Mesa	Ellsworth Rd. to Crismon Rd.	\$1,500,000	\$750,000
10	Raven's Roost Dam and Outfall	Mesa	McDowell Rd. and Userly Pass Road	\$6,000,000	\$6,000,000
11	Elliot and Ellsworth Rds. Storm Drn. Channels/Basins	Mesa	Signal Butte Rd. to EMF and Elliot Rd. to C.A.P. Canal	\$17,000,000	\$17,000,000
12	SE Phoenix Regional Drainage System	Phoenix	48th St. and Chandler Blvd. vicinity	\$10,000,000	\$10,000,000
13	Rawhide Wash Regional Stormwater Detention Basin	Phoenix	Pima Rd. and Jomax Rd. vicinity	\$17,500,000	\$17,500,000
14	Little Deer Valley Drainage Plan	Phoenix	W. of Skunk Creek, Pinnacle Peak Rd. to CAP	\$22,500,000	\$22,500,000
15	107th Ave. Area Improvements	Phoenix	Agua Fria (W), Bethany Home (N), 91st Ave. (E), RID (S)	\$5,000,000	\$5,000,000
16	LOMR for Squaw Peak Highway	Phoenix	Shea Blvd. to Thunderbird Rd.	\$100,000	\$50,000
17	McMicken Dam Inlet Channel	FCD	Northern Ave. to Peoria Ave.	\$2,500,000	\$2,500,000
	Total			\$121,390,000	\$107,365,500
	<i>Projects w/Completed Pre-design (for CIP):</i>				
1	Guadalupe Flood Control Improvements	Guad./Tempe	Town of Guadalupe	\$3,900,000	\$3,900,000
2	10th St. Wash - Channel Clean Out	Phoenix	Cheryl Dr. to Arizona Canal Diversion Channel	\$3,150,000	\$3,150,000
3	Skunk Creek Channel Improvements	Glen./Peo./Phx.	ACDC to Agua Fria Freeway (Beardsley Rd.)	\$11,450,000	\$5,725,000
4	Bullard Wash Outfall Channel Improvements	Goodyear	Phoenix/Goodyear Airport to Gila River	\$7,500,000	\$3,750,000
	Total			\$26,000,000	\$16,525,000
Table 1 provides a list of the 21 project proposals submitted for consideration by the District during the FY 96/97 CIP Prioritization Procedure. The Projects are ordered alphabetically by agency. For agencies submitting multiple requests, the projects are ranked according to the agencies' priority listings.					

* New Projects Listed in Agencies' Priority Order

Table 2

Project List for CIP Prioritization Procedure - FY 96-97						
Recommendations for Pre-design Studies and New CIP Projects						
	Project Name	Sponsor	Est. Cost	FCD Cost	Score	Recommendation
	<i>New Requests (for Pre-design):</i>					
1	C.A.P. Overshoot Collection System	Mesa	\$10,000,000	\$7,500,000	73	Complete pre-design w/#s 10 & 17
2	Rawhide Wash Regional Stormwater Detention Basin	Phoenix	\$17,500,000	\$17,500,000	73	Pre-design ongoing; consider IGA
3	LOMR for Squaw Peak Highway	Phoenix	\$100,000	\$50,000	71	Enter IGA negotiations
4	SE Phoenix Regional Drainage System	Phoenix	\$10,000,000	\$10,000,000	68	Coordinate pre-design w/Phx & ID
5	McMicken Dam Inlet Channel	FCD	\$2,500,000	\$2,500,000	65	Complete in-house pre-design
6	Ashbrook/Balboa Wash Improvements	Ftn. Hills	\$1,330,000	\$798,000	64	Complete ongoing F. Hills ADMP
7	Bethany Home Rd. Outfall Storm Drain	Glendale	\$15,150,000	\$11,362,500	63	Complete pre-design
8	Little Deer Valley Drainage Plan	Phoenix	\$22,500,000	\$22,500,000	57	Not recommended
9	107th Ave. Area Improvements	Phoenix	\$5,000,000	\$5,000,000	56	Not recommended
10	Southern Ave. Storm Drain - Phase I	Mesa	\$1,000,000	\$500,000	55	Complete pre-design w/#s 1 & 17
11	Raven's Roost Dam and Outfall	Mesa	\$6,000,000	\$6,000,000	55	Not recommended
12	Elliot and Ellsworth Rds. Storm Drn. Channels/Basins	Mesa	\$17,000,000	\$17,000,000	54	Complete ongoing SE Mesa ADMP
13	67th Avenue Storm Drain - Phase I	Glendale	\$1,685,000	\$842,500	53	Not recommended
14	Broadway Road Channel	Mesa	\$7,000,000	\$3,500,000	53	Not recommended
15	67th Avenue Storm Drain - Phase II	Glendale	\$2,595,000	\$1,297,500	51	Not recommended
16	59th Avenue Storm Drain	Glendale	\$530,000	\$265,000	49	Not recommended
17	Southern Ave. Storm Drain - Phase II	Mesa	\$1,500,000	\$750,000	49	Complete pre-design w/#s 1 & 10
	Total		\$121,390,000	\$107,365,500		
	<i>Projects w/Completed Pre-design (for CIP):</i>					
1	Bullard Wash Outfall Channel Improvements	Goodyear	\$7,500,000	\$3,750,000	78	Negotiate IGA; complete project
2	Skunk Creek Channel Improvements	Glen./Peo./Phx.	\$11,450,000	\$5,725,000	71	Negotiate IGA; complete project
3	Guadalupe Flood Control Improvements	Guad./Tempe	\$3,900,000	\$3,900,000	69	Negotiate IGA; complete project
4	10th St. Wash - Channel Clean Out	Phoenix	\$3,150,000	\$3,150,000	30	Not recommended
	Total		\$26,000,000	\$16,525,000		
Table 2 provides the ranked scores and recommendations of the District's Project Evaluation Committee for the 21 project proposals submitted for review. These recommendations were approved by the FCAB on February 28, 1996.						

Table 3

<p align="center">Summary of CIP Project Recommendations Based on Prioritization Procedure for FY 96/97</p>						
		City/Town	Total Original Cost	Remaining FCD Cost	Score	Projected Fiscal Year(s)
I.	Continuing CIP Projects:					
I.A	Land Acq./Const. Ongoing 1995-96:					
I.A.1	Beardsley Rd. RDS - Phase I	Phoenix	\$13,140,000	\$46,000	78	95/96
I.A.2	Dysart Drain/Reems Rd. Connector	Glendale	\$15,864,000	\$230,000	77	95/96
I.A.3	Casandro Wash Dam and Outlet	Wickenburg	\$4,000,000	\$2,100,000	73	95/96
I.A.4	South Phoenix Drainage Improvements - Phase I	Phoenix/U.C.	\$755,000	\$3,565,000	70	95/96 - 00/01
I.A.5	10th St. Wash Basins	Phoenix	\$6,000,000	\$3,475,000	69	95/96 - 96/97
I.A.6	84th St./Cholla Basin & Storm Drain	Scottsdale	\$1,700,000	\$400,000	66	95/96 - 96/97
I.A.7	Grovers Avenue Lateral	Phoenix	\$1,354,000	\$151,000	66	95/96 - 96/97
I.A.8	Rittenhouse Channel	Queen Creek	\$5,156,000	\$5,200,000	66	95/96 - 97/98
I.A.9	Utopia Road Lateral	Phoenix	\$200,000	\$20,000	66	95/96 - 96/97
I.A.10	Rosemont Lateral	Phoenix	\$1,300,000	\$62,000	65	95/96 - 96/97
I.A.11	Campobello Drive Lateral	Phoenix	\$3,600,000	\$21,000	65	95/96 - 96/97
I.A.12	Northern/Orangewood Storm Drain	Glendale/Peoria	\$16,500,000	\$10,200,000	63	95/96 - 00/01
I.A.13	Guadalupe Improvements	Guadalupe	\$200,000	\$4,300,000	59	95/96 - 98/99
I.A.14	Cactus Rd. Storm Drain	Peoria/Glendale	\$9,500,000	\$1,300,000	58	95/96 - 97/98
I.A.15	Upper New River Flood Mitigation	U.C.	\$2,200,000	\$700,000	57	95/96 - 96/97
I.A.16	Old Cross Cut Canal	Phoenix	\$26,000,000	\$16,500,000	54	95/96 - 99/00
I.A.17	White Tanks #4 Inlet	Buckeye	\$3,100,000	\$1,600,000	50	95/96 - 97/98
I.A.18	Price Drain	Mesa/Chandler	\$40,000,000	\$1,400,000	N/A	96/97
I.A.19	Salt River Channel (McClintock to Price)	Tempe	\$13,500,000	\$2,700,000	N/A	95/96
I.A.20	Salt/Gila Control Works	Various	\$1,455,000	\$500,000	N/A	95/96 - 99/00
Subtotal for I.A.:			\$165,524,000	\$54,470,000		

Table 3

<p align="center">Summary Of CIP Project Recommendations Based On Prioritization Procedure FY 96/97</p>						
		City/Town	Total Original Cost	Estimated FCD Cost	Score	Projected Fiscal Year(s)
I.	Continuing CIP Projects:					
I.B	IGA/Board Approval Complete					
I.B.1	White Tanks #3 FRS Modification (NRCS)	U.C.	\$700,000	\$0	41	96/97
	<i>Subtotal for I.B:</i>		\$700,000	\$0		
I.C	IGA/Board Approval Ongoing:					
I.C.1	Reata Pass Channel - Phase I/Phase II	Scottsdale	\$17,300,333	\$7,600,000	78/69	96/97 - 00/01
I.C.2	Bullard Wash Outfall Channel	Goodyear	\$1,500,000	\$6,000,000	74	95/96 - 98/99
I.C.3	SE Valley Reg. Drainage System	Chandler	\$23,800,000	\$10,600,000	70	96/97 - 99/00
I.C.4	RID Canal Overchute	Litchfield Park	\$600,000	\$1,000,000	66	95/96 - 96/97
I.C.5	Skunk Creek Improvements	Glendale/Peoria	\$8,200,000	\$9,000,000	60	95/96 - 99/00
I.C.6	Camelback Ranch Channelization	Phoenix	\$4,250,000	\$4,000,000	53	95/96 - 97/98
	<i>Subtotal for I.C:</i>		\$55,650,333	\$38,200,000		
	Total for I.A-I.C:		\$221,874,333	\$92,670,000		

Table 3

Summary Of CIP Project Recommendations Based On Prioritization Procedure FY 96/97						
		City/Town	Total Original Cost	Estimated FCD Cost	Score	Projected Fiscal Year(s)
II.	Potential CIP Projects:					
II.A	Pre-Design Initiated					
II.A.1	Rawhide Wash Reg. Detention Basin	Phx./Scottsdale	\$17,500,000	\$6,675,000	73	98/99 - 00/01
II.A.2	SW Scottsdale Flood Control Project	Scottsdale	\$13,500,000	\$6,750,000	72	To Be Determined
II.A.3	Pima Road Channel/Basins	Scottsdale	\$18,300,000	\$12,500,000	72	96/97 - 00/01
II.A.4	South Phoenix Drainage Improvements - Ultimate	Phoenix/U.C.	\$10,000,000	To Be Determined	70	To Be Determined
II.A.5	Grand Canal Detention Basins (Maryvale ADMP)	Phoenix	\$30,000,000	To Be Determined	64	96/97 - TBD
II.A.6	Southern Pacific RR Drain. Improvements*	Tolleson	\$1,500,000	\$1,500,000	59	95/96 - TBD
II.A.7	Arcadia Area Drainage Project	Phoenix	\$12,000,000	To Be Determined	59	To Be Determined
II.A.8	Tatum Wash Channel	Phoenix	\$10,000,000	To Be Determined	56	96/97 - 00/01
II.A.9	Doubletree Ranch Rd. Drain	P. Valley	\$8,300,000	To Be Determined	53	96/97 - TBD
II.A.10	Ellsworth/Germann Collector Channel	Mesa	\$2,650,000	To Be Determined	51	97/98 - 99/00
II.A.11	Van Buren St. Drain. Improvements*	Tolleson	\$1,000,000	\$1,000,000	43	95/96 - TBD
<i>Subtotal for II.A:</i>			\$124,750,000	To Be Determined		
II.B	Begin IGA/Board Approval if Additional Funds Become Available:					
II.B.1	91st Ave. Flood Mitigation	Phoenix	\$2,600,000	\$2,600,000	58	To Be Determined
<i>Subtotal for II.B:</i>			\$2,600,000	\$2,600,000		

Table 3

<p align="center">Summary Of CIP Project Recommendations Based On Prioritization Procedure FY 96/97</p>						
		City/Town	Total Original Cost	Proposed FCD Cost	Score	Projected Fiscal Year(s)
II.	Potential CIP Projects:					
II.C	Pre-Design Recommended (not initiated):					
II.C.1	C.A.P. Overshoot Collection System (FY 96/97)	Mesa	\$10,000,000	\$7,500,000	73	96/97 - TBD
II.C.2	LOMR for Squaw Peak Highway (FY 96/96)	Phoenix	\$100,000	\$50,000	71	96/97
II.C.3	SE Phoenix Regional Drain. System (FY 96/97)	Phoenix	\$10,000,000	\$10,000,000	68	96/97 - TBD
II.C.4	McMicken Dam Inlet Channel (FY 96/97)	FCD	\$2,500,000	\$2,500,000	65	96/97 - TBD
II.C.5	91st Ave./Union Hills Improvements (FY 94/95)	Peoria	\$3,700,000	\$2,500,000	65	96/97 - TBD
II.C.6	Ashbrook/Balboa Wash Improvements (FY 96/97)	Ftn. Hills	\$1,330,000	\$798,000	64	96/97 - TBD
II.C.7	Bethany Home Rd. Outfall Storm Drain (FY 96/97)	Glendale	\$15,150,000	\$11,362,500	63	To Be Determined
II.C.8	East PVSP Project (FY 95/96)	Scottsdale	\$3,318,000	\$1,659,000	63	To Be Determined
II.C.9	Hayden/Shea Flood Control Project (FY 95/96)	Scottsdale	\$4,600,000	\$2,300,000	63	To Be Determined
II.C.10	East Shea Reg. Flood Control Project (FY 95/96)	Scottsdale	\$4,339,000	\$2,169,500	62	To Be Determined
II.C.11	Cave Creek Basin & Channel (FY 94/95)	FCD/Phoenix	\$2,160,000	\$2,160,000	59	To Be Determined
II.C.12	Dreamy Draw Wash East and West** (FY 95/96)	Phoenix	\$8,000,000	\$8,000,000	58	To Be Determined
II.C.13	Southern Ave. Storm Drain - Phase I (FY 96/97)	Mesa	\$1,000,000	\$500,000	55	To Be Determined
II.C.14	Elliot and Ellsworth Rds. Storm Drn. (FY 96/97)	Mesa	\$17,000,000	\$17,000,000	54	To Be Determined
II.C.15	Myrtle Avenue Wash** (FY 95/96)	Phoenix	\$3,000,000	\$3,000,000	53	To Be Determined
II.C.16	Flynn Lane Wash** (FY 95/96)	Phoenix	\$5,000,000	\$5,000,000	51	To Be Determined
II.C.17	Southern Ave. Storm Drain - Phase II (FY 96/97)	Mesa	\$1,500,000	\$750,000	49	To Be Determined
Subtotal for II.C:			\$92,697,000	\$77,249,000		
Total for II.A-II.C:			\$220,047,000	To Be Determined		

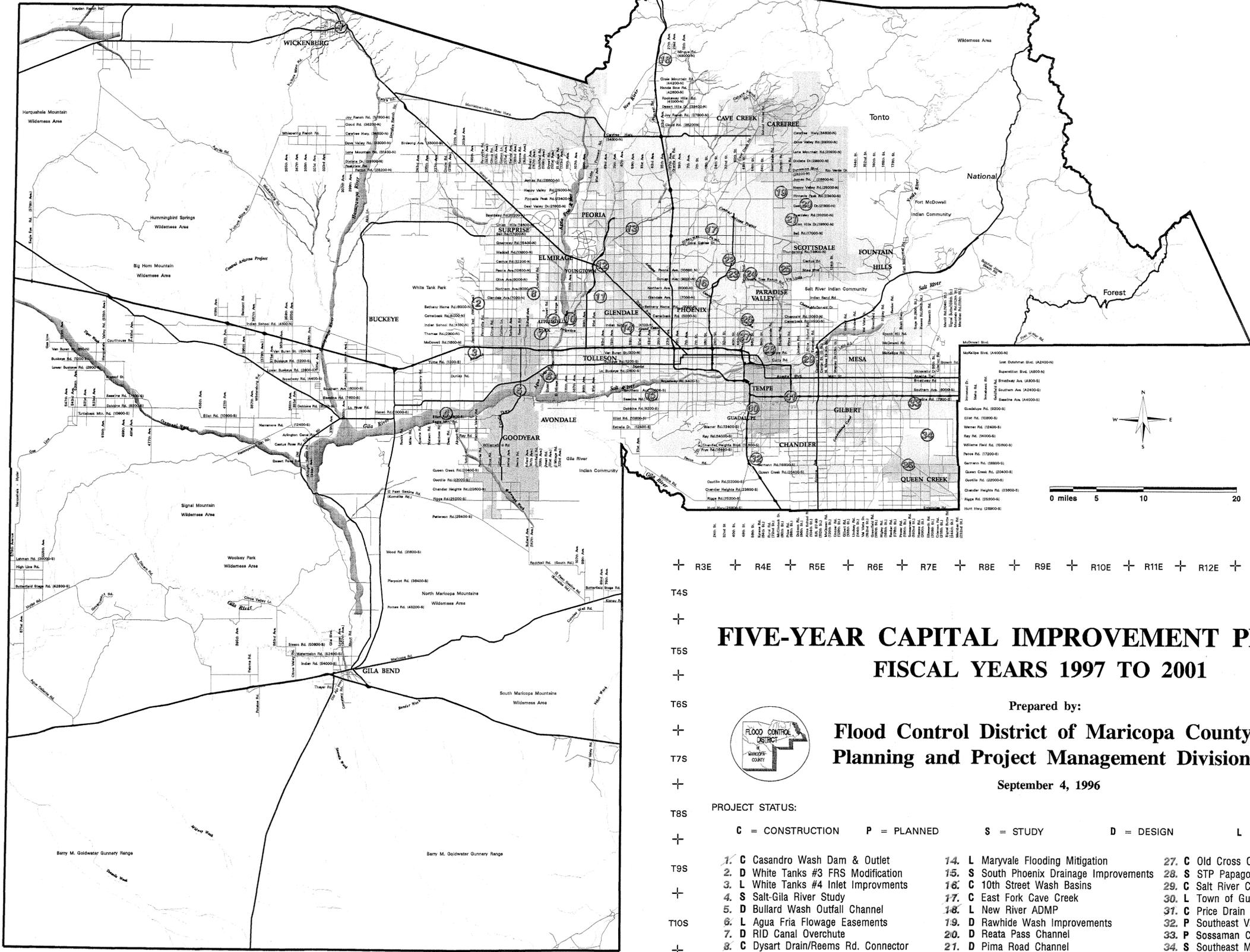
Projects with * and ** are linked under single pre-design study recommendations due to their proximity.

Table 3

<p align="center">Summary Of CIP Project Recommendations Based On Priortization Procedure FY 96/97</p>						
		City/Town	Total Original Cost	Proposed FCD Cost	Score	Projected Fiscal Year(s)
III.A	Not Recommended:					
III.A.1	Little Deer Valley Drain. Plan (FY 95/96 & 96/97)	Phoenix	\$22,500,000	\$22,500,000	57	N/A
III.A.2	107th Ave. Area Improvements (FY 96/97)	Phoenix	\$5,000,000	\$5,000,000	56	N/A
III.A.3	Raven's Roost Dam and Outfall (FY 96/97)	Mesa	\$6,000,000	\$6,000,000	55	N/A
III.A.5	67th Ave. Storm Drain-Phase I(FY 95/96 &96/97)	Glendale	\$1,685,000	\$842,500	53	N/A
III.A.6	Broadway Road Channel (FY 96/97)	Mesa	\$7,000,000	\$3,500,000	53	N/A
III.A.7	67th Ave. Storm Drain-Phase II(FY 95/96 & 96/97)	Glendale	\$2,595,000	\$1,297,500	51	N/A
III.A.8	59th Avenue Storm Drain (FY 96/97)	Glendale	\$530,000	\$265,000	49	N/A
III.A.9	10th St. Wash - Channel Clean Out	Phoenix	\$3,150,000	\$3,150,000	30	N/A
Total for III:			\$48,460,000	\$42,555,000		

+ R10W + R9W + R8W + R7W + R6W + R5W + R4W + R3W + R2W + R1W + R1E + R2E + R3E + R4E + R5E + R6E + R7E + R8E + R9E + R10E + R11E + R12E + R13E +

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FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 1997 TO 2001

Prepared by:
**Flood Control District of Maricopa County
Planning and Project Management Division**

September 4, 1996

PROJECT STATUS:

- | | | | | |
|-------------------------|--------------------|------------------|-------------------|-----------------------------|
| C = CONSTRUCTION | P = PLANNED | S = STUDY | D = DESIGN | L = LAND ACQUISITION |
|-------------------------|--------------------|------------------|-------------------|-----------------------------|
-
- | | | |
|---|--|---|
| 1. C Casandro Wash Dam & Outlet | 14. L Maryvale Flooding Mitigation | 27. C Old Cross Cut Canal |
| 2. D White Tanks #3 FRS Modification | 15. S South Phoenix Drainage Improvements | 28. S STP Papago Watershed Study |
| 3. L White Tanks #4 Inlet Improvements | 16. C 10th Street Wash Basins | 29. C Salt River Channel |
| 4. S Salt-Gila River Study | 17. C East Fork Cave Creek | 30. L Town of Guadalupe |
| 5. D Bullard Wash Outfall Channel | 18. L New River ADMP | 31. C Price Drain |
| 6. L Agua Fria Flowage Easements | 19. D Rawhide Wash Improvements | 32. P Southeast Valley Regional Drainage |
| 7. D RID Canal Overchute | 20. D Reata Pass Channel | 33. P Sossaman Channel |
| 8. C Dysart Drain/Reems Rd. Connector | 21. D Pima Road Channel | 34. S Southeast Mesa ADMP |
| 9. L Colter Channel | 22. D Squaw Peak LOMR | 35. L Rittenhouse Drainage Improvements |
| 10. D Camelback Ranch | 23. S Tatum Wash Channel | |
| 11. D Northern/Orangewood Storm Drain | 24. S Doubletree Ranch Rd. Drain | |
| 12. C Cactus Road Storm Drain | 25. C 84th St/Cholla Basin & Drain | |
| 13. L Skunk Creek Improvements | 26. S Arcadia Area Drainage Project | |

