

Property of  
Flood Control District of  
Maricopa County  
2501 W. Durango  
Phoenix, AZ 85009

# **Emergency Action Plan**

## **City of Tempe**

### **Rio Salado Town Lake Dam**

Rev. 2.2  
August 20, 1999



**HDR**

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## Purpose

This plan defines responsibilities and provides procedures to identify potential emergency conditions that endanger Town Lake Dam. In the event of possible, impending, or actual failure of Town Lake Dam, and upon identification of an emergency, the plan lists the actions to be followed, and appropriate officials to be notified to minimize property damage and loss of life. The plan also provides procedures to follow when upstream flood releases create major flooding. From time to time, operational releases from Town Lake will be required to be performed. These are not considered part of the emergency response plan and will follow procedures set out in the "Town Lake Manual of Operation" Chapter VII, Section C.2.

## Notification Procedure

This section is included in this document for notification purposes only.

The "Responsibilities" section of this document outlines the suggested procedure to be followed upon contact of the person or agency. The following sequences are attached:

1. Failure or Emergency Involving Downstream Dam
2. Failure or Emergency Involving Upstream Dam
3. Large Flow Release from Salt River Dam System

The notification procedure is illustrated on the following pages. Each block shows the name of the main contact person or agency, phone number, and if available, an alternate contact. If applicable, a substitute to the main contact person, or agency will also be provided. Moreover, the procedure is listed in an indented format, where the indentations prioritize the agencies to call. Using the failure of the downstream dam as an example, the 911 operator calls the Tempe Police Department. Then the Tempe Police Department calls the Tempe Fire Department, Phoenix Police Department, Water Management Department, Town Lake Operations Supervisor, Rio Salado Project Manager, Maricopa County Sheriff, Arizona State University (ASU) Police Department, Maricopa County Department of Emergency Management, Salt River Project (SRP), and the Town Lake Security Staff. Next as each of these agencies are called, they in turn call the agencies that are indented under their column. As an example, the Town Lake Operations Supervisor would call the Arizona Department of Water Resources (Dam Safety Section), Flood Control District of Maricopa County, Arizona Department of Environmental Quality (ADEQ), Arizona Department of Transportation (ADOT), and the United States Geological Service (USGS). As stated above, these are suggested procedures. Each agency may contact any other internal person or agency as they see fit.

## Failure or Emergency Event Involving the Downstream Dam Sequence:

**1. Observer of the event calls 911**

**2. 911 calls the Tempe Police Department**

Contact: Ron Burns Phone: 350-8215  
 Pager: 390-5429  
 Alt: Lee O'Lerey Phone: 350-8306  
 Pager: 731-7641

**3. Tempe Police Department Calls**

**3A. Phoenix Police Department**

Contact: S. Central Ave. Phone: 495-5003  
 Alt: W. Washington St. Phone: 534-1623

Phoenix Police Department Calls

**3A1. Arizona Crushing Co.\***

Contact: Tim Green Phone: 830-5600  
 Alt: Jim Green Phone: 835-0207

**3A2. Calmat Co.\***

Contact: Richard McDonald Phone: 254-8465  
 Alt: David Moran Phone: 254-8465

**3A3. Hunter Contracting Co.\***

Contact: Bob Carson Phone: 757-1520  
 Alt: Keith Samples Phone: 757-1838

**3A4. James Bond Trucking Co.\***

Contact: James Bond Phone: 276-5574

**3A5. Phoenix Redi-Mix\***

Contact: Bob Strom Phone: 935-1875  
 Ext. 201

**3A6. Pioneer Sand Co.\***

Contact: David Sawyers Phone: 926-8200  
 926-9091

**3A7. The Tanner Companies\***

Alt: Lynn Moon Phone: 233-2971  
 Contact: Bob Woods Phone: 220-5619  
 Alt: John Fowler Phone: 220-5611

**3A8. Western Block Co.\***

Contact: Larry Johnson Phone: 243-3975  
 Alt: Doug Peters Phone: 437-0188

**3A9. Sand and Gravel Operations\***

Contact: Peter Honna Phone: 262-4067

**3A10. Sverdrup Construction\***

Contact: Emergency Hotline Phone: 273-3311  
 Alt: John Showmaker Phone: 273-0706

**3B. Call Tempe Fire Department**

Contact: Cliff Jones Phone: 350-8251  
 Pager: 215-0010

Alt: Jim Gaintner Phone: 858-7202  
 Pager: 215-0006

Alt: Tom Abbott Phone: 858-7219  
 Pager: 215-0022

**3C. Call Water Management Department**

Contact: Don Hawkes Phone: 350-2660  
 Alt: Tom Gallier Phone: 350-2620

**3D. Call SRP (if they are not the initiators)**

Contact: SRP Transmission Water Master Phone: 236-5836

Alt: SRP Transmission Water Master Phone: 236-5889

Alt: SRP Association Dispatch Center Phone: 236-5296

**3E. Call Town Lake Operations Supervisor**

Contact: Phone:  
 Alt: Phone:

Town Lake Operations Supervisor Calls

**3E1. Call Arizona Department of Water Resources, Dam Safety Section**

Contact: Mike Greenslade Phone: (602) 417-2445

Alt: Dan Lawrence Phone: (602) 417-2445

**3E2. Call Flood Control District of Maricopa County**

Contact: Michael Ellgood Phone: 506-1501  
 506-4700

	Alt:	Lorie Minor	Phone:	506-1501 506-4700
3E3. Call ADEQ	Contact:	Emergency Response	Phone:	207-2330
	Alt:	Main Office	Phone:	207-4300
3E4. Call ADOT	Contact:	Free Operations	Phone:	257-1563
	Alt:	Safety & Health	Phone:	255-7744
3E5. Call USGS (Tempe Office)	Contact:	Jeff Phillips	Phone:	602-379-3088
3F. Call Rio Salado Project Manager	Contact:	Steve Nielsen	Phone:	350-8625
	Alt:	Chris Messer	Phone:	350-8876
Rio Salado Project Manager Calls				
3F1. Call Tempe City Manager's Office	Contact:	Gary Brown	Phone:	350-8495
			Mobile:	819-0321
			Home:	961-0544
3F2. Call Concessionaires at Town Lake	Alt:		Phone:	
	Contact:		Phone:	
	Alt:		Phone:	
3F3. Call Harbor Master at Town Lake Marina	Contact:		Phone:	
	Alt:		Phone:	
3F4. Call Aquatic Club	Contact:		Phone:	
	Alt:		Phone:	
3F5. Call ASU Recreation Office	Contact:		Phone:	
	Alt:		Phone:	
3F6. Other Lake Users	Contact:		Phone:	
	Alt:		Phone:	
3F7. Private Developers	Contact:		Phone:	
	Alt:		Phone:	
3G. Call Maricopa County Sheriff's Office	Contact:	On Duty Personal	Phone:	256-1030
3H. Call ASU Police Department	Contact:	Main Office	Phone:	965-3456
	Alt:	Chief's Office	Phone:	965-5056
3I. Call Maricopa County Department of Emergency Management	Contact:	Duty Officer	Phone:	(602) 273-1411
	Alt:	After hours calls are automatically forwarded.		
Maricopa County Department of Emergency Management Calls				
3I1. Call Central Arizona Chapter of the American Red Cross	Contact:	Harry Doyle	Phone:	336-6680
			Mobile:	571-7782
			Home:	547-3639
	Alt:	Perod Ayala	Phone:	336-6671
			Mobile:	571-7781
			Home:	252-4746
3I2. Call Arizona Division of Emergency Management	Contact:	Duty Officer	Phone:	244-0504
	Alt:	Lou Trammel	Phone:	231-6203
			Home:	720-1319
3I3. Call Phoenix Emergency Management Coordinator	Contact:		Phone:	495-2077
			Pager:	888-709-3309
	Alt:		Phone:	262-7496
3I4. Call Avondale Fire Department	Contact:	Paul Adams	Phone:	932-5805
	Alt:	Lou Garduno	Phone:	932-5803
3I5. Call Arizona Department of Public Safety	Contact:	Main Office	Phone:	223-2000
	Alt:		Phone:	
3I6. Call Maricopa County DOT	Contact:	Cindy Robinson	Phone:	506-8796
			Pager:	660-7376
	Alt:	Tom Buick	Phone:	506-4622
3I7. Call Goodyear Fire Department	Contact:	Mark Gainars	Phone:	932-2300
	Alt:	Mike Ulman	Phone:	932-2300

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3118. Call Tolleson Police Department	Contact: Rick Patcsieder	Phone: 936-7187
	Alt: Ruben Doudos	Phone: 936-7187
3119. Call Buckeye Police Department	Contact: Harry Bishop	Phone: 386-4421
	Alt: Stewert Prigge	Phone: 386-4421
31110. Call Gila River Indian Community, Tribal Police Department	Contact: Duty Person	Phone: 520-796-0415
	Alt: John Imeods	Phone: 520-796-0416
31111. Call Leveen School District	Contact: Connie Gibbons	Phone: 237-9100
	Alt: Pudley Stringer	Phone: 237-9100
31112. Call Tolleson Union High School District	Contact: Kino Flores	Phone: 247-4222
	Alt: Tony Aguirre	Phone: 936-8370
3113. Call Littleton School District	Contact: Star Weltzin	Phone: 936-6581 936-3338 936-5013
	Alt: Clinton Aycock	Phone: 936-3333 Home: 548-8672
31114. Call Liberty School District	Contact: Sam Cianpharno	Phone: 483-6160 Home: 986-4602
31115. Call Arlington Canal Company	Contact: Main Office	Phone: 386-2162
31116. Call Buckeye Water Conservation District	Contact: Main Office	Phone: 386-4997
31117. Call National Weather Service	Contact: David Runyon	Phone: 374-4000 379-4611
31118. Arizona Public Service	Contact: ECC Headquarters	Phone: 250-1080
31119. Buckeye Irrigation Co.	Contact: Jackie Meak	Phone: 386-2196
	Alt: Jerrell Bowland	Phone: 386-2196
31120. Central Arizona Water Conservation District	Contact: Control Center	Phone: 870-2562
	Alt: Emergency Backup	Phone: 581-8375
31121. City of Phoenix Water Dept.	Contact: Dispatcher	Phone: 261-8000
31122. Los Angeles Corp of Eng.	Contact: Brian Tracy	Phone: 213-452-3527
	Alt: Joe Evelyn	Phone: 213-452-3525
31123. Rural Metro Corporation	Contact: Supervisor on duty	Phone: 945-6311
	Alt:	Phone:
31124. Southwest Gas Corporation	Contact: Dispatch Center	Phone: 271-4277
	Alt: Art Heady	Phone: 484-5236
31125. USBR, Arizona Projects Office	Contact: Tom Burbery	Phone: 395-5604
	Alt:	Phone:
31126. Maricopa County Highway Dept	Contact: Alex or George	Phone: 506-8664
3J. Call Lake Security Staff	Contact:	Phone:
	Alt:	Phone:

\* As companies are given permits to conduct activities in the Salt River channel, or as permits expire, this section of the notification sequence will need to be updated.

## Failure or Emergency Event Involving the Upstream Dam

### Sequence:

1. Observer of the event calls 911

2. 911 calls the Tempe Police Department

Contact: Ron Burns Phone: 350-8215  
 Pager: 390-5429  
 Alt: Lee O'Lerey Phone: 350-8306  
 Pager: 731-7641

3. Tempe Police Department Calls

3A. Call Tempe Fire Department

Contact: Cliff Jones Phone: 350-8251  
 Pager: 215-0010  
 Alt: Jim Gaintner Phone: 858-7202  
 Pager: 215-0006  
 Alt: Tom Abbott Phone: 858-7219  
 Pager: 215-0022

3B. Call Water Management Department

Contact: Don Hawkes Phone: 350-2660  
 Alt: Tom Gallier Phone: 350-2620

3C. Call SRP (if they are not the initiators)

Contact: SRP Transmission Water Master Phone: 236-5836  
 Alt: SRP Transmission Water Master Phone: 236-5889  
 Alt: SRP Association Dispatch Center Phone: 236-5296

3D. Call Town Lake Operations Supervisor

Contact: Phone:  
 Alt: Phone:

Town Lake Operations Supervisor Calls

3D1. Call Arizona Department of Water Resources, Dam Safety Section

Contact: Mike Greenslade Phone: (602) 417-2445  
 Alt: Dan Lawrence Phone: (602) 417-2445

3D2. Call Flood Control District of Maricopa County

Contact: Michael Ellgood Phone: 506-1501  
 506-4700  
 Alt: Lorie Minor Phone: 506-1501  
 506-4700

3D3. Call ADEQ

Contact: Emergency Response Phone: 207-2330  
 Alt: Main Office Phone: 207-4300

3D4. Call ADOT

Contact: Free Operations Phone: 257-1563  
 Alt: Safety & Health Phone: 255-7744

3D5. Call USGS (Tucson Office)

Contact: Nick Melcher Phone: 520-670-5549  
 Alt: Phone:

3E. Call Rio Salado Project Manager

Contact: Steve Nielsen Phone: 350-8625  
 Alt: Chris Messer Phone: 350-8876

Rio Salado Project Manager Calls

3E1. Call Tempe City Manager's Office

Contact: Gary Brown Phone: 350-8495  
 Mobile: 819-0321  
 Home: 961-0544

3E2. Call Concessionaires at Town Lake

Alt: Phone:  
 Contact: Phone:

3E3. Call Harbor Master at Town Lake Marina

Contact: Phone:  
 Alt: Phone:

3E4. Call Aquatic Club

Contact: Phone:  
 Alt: Phone:

3E5. Call ASU Recreation Office

Contact: Phone:  
 Alt: Phone:

3E6. Other Lake Users

Contact: Phone:

3E7. Private Developers	Alt:	Phone:
	Contact:	Phone:
3F. Call Maricopa County Sheriff's Office	Alt:	Phone:
3G. Call ASU Police Department	Contact: On Duty Personal	Phone: 256-1030
	Contact: Main Office	Phone: 965-3456
	Alt: Chief's Office	Phone: 965-5056
3H. Call Maricopa County Department of Emergency Management	Contact: Duty Officer	Phone: (602) 273-1411
	Alt: After hours calls are automatically forwarded.	
Maricopa County Department of Emergency Management Calls		
3H1. Call Central Arizona Chapter of the American Red Cross	Contact: Harry Doyle	Phone: 336-6660 Mobile: 571-7782 Home: 547-3639
	Alt: Perod Ayala	Phone: 336-6671 Mobile: 571-7781 Home: 252-4746
3H2. Call Arizona Division of Emergency Management	Contact: Duty Officer	Phone: 244-0504
	Alt: Lou Tammnel	Phone: 231-6203 Home: 720-1319
3H3. Call Arizona Department of Public Safety	Contact: Main Office	Phone: 223-2000
	Alt:	Phone:
3H4. Call National Weather Service	Contact: David Runyon	Phone: 374-4000 379-4611
3H5. Arizona Public Service	Contact: ECC Headquarters	Phone: 250-1080
3I. Call Lake Security Staff	Contact:	Phone:
	Alt:	Phone:

## Large Flow Release from Salt River Dam System \*

### Sequence:

1. Observer of the event calls 911

2. 911 calls the Tempe Police Department

Contact: Ron Burns Phone: 350-8215  
 Pager: 360-5429  
 Alt: Lee O'Lerey Phone: 350-8306  
 Pager: 731-7641

3. Tempe Police Department Calls

3A. Call Phoenix Police Department

Contact: S. Central Ave. Phone: 485-5003  
 Alt: W. Washington St. Phone: 534-1623

Phoenix Police Department Calls

3A1. Arizona Crushing Co.\*\*

Contact: Tim Green Phone: 830-5600

Alt: Jim Green Phone: 835-0207

3A2. Calmat Co.\*\*

Contact: Richard McDonald Phone: 254-8465

Alt: David Moran Phone: 254-8465

3A3. Hunter Contracting Co.\*\*

Contact: Bob Carson Phone: 757-1520

Alt: Keith Samples Phone: 757-1838

3A4. James Bond Trucking Co.\*\*

Contact: James Bond Phone: 276-5574

3A5. Phoenix Red-Mix\*\*

Contact: Bob Strom Phone: 935-1875

Ext. 201

3A6. Pioneer Sand Co.\*\*

Contact: David Sawyers Phone: 926-8200

926-9081

Alt: Lynn Moon Phone: 233-2971

3A7. The Tanner Companies\*\*

Contact: Bob Woods Phone: 220-5619

Alt: John Fowler Phone: 220-5811

3A8. Western Block Co.\*\*

Contact: Larry Johnson Phone: 243-3975

Alt: Doug Peters Phone: 437-0188

3A9. Sand and Gravel Operations\*\*

Contact: Peter Honna Phone: 262-4067

3A10. Sverdrup Construction\*\*

Contact: Emergency Hotline Phone: 273-3311

Alt: John Showmaker Phone: 273-0706

Contact: Cliff Jones Phone: 350-8251

Pager: 215-0010

Alt: Jim Gaintner Phone: 858-7202

Pager: 215-0006

Alt: Tom Abbott Phone: 858-7219

Pager: 215-0022

3B. Call Tempe Fire Department

3C. Call Water Management Department

Contact: Don Hawkes Phone: 350-2660

Alt: Tom Gallier Phone: 350-2620

3D. Call SRP (if they are not the initiators)

Contact: SRP Transmission Water Master Phone: 236-5836

Alt: SRP Transmission Water Master Phone: 236-5889

Alt: SRP Association Dispatch Center Phone: 236-5296

Alt: Tom Gallier Phone: 350-2620

Phone:

Alt:

Phone:

3E. Call Town Lake Operations Supervisor

Town Lake Operations Supervisor Calls

3E1. Call Arizona Department of Water Resources, Dam Safety Section

Contact: Mike Greenslade Phone: (602) 417-2445

Alt: Dan Lawrence Phone: (602) 417-2445

3E2. Call Flood Control District of Maricopa County

Contact: Michael Ellgood Phone: 506-1501

506-4700

	Alt:	Lorie Minor	Phone:	506-1501 506-4700
3E3. Call ADEQ	Contact:	Emergency Response	Phone:	207-2330
	Alt:	Main Office	Phone:	207-4300
3E4. Call ADOT	Contact:	Free Operations	Phone:	257-1563
	Alt:	Safety & Health	Phone:	255-7744
3E5. Call USGS (Tempe Office)	Contact:	Jeff Phillips	Phone:	602-379-3088
3F. Call Rio Salado Project Manager	Contact:	Steve Nielsen	Phone:	350-8625
	Alt:	Chris Messer	Phone:	350-8876
Rio Salado Project Manager Calls				
3F1. Call Tempe City Manager's Office	Contact:	Gary Brown	Phone:	350-8495
			Mobile:	819-0321
			Home:	961-0544
	Alt:		Phone:	
3F2. Call Concessionaires at Town Lake	Contact:		Phone:	
	Alt:		Phone:	
3F3. Call Harbor Master at Town Lake Marina	Contact:		Phone:	
	Alt:		Phone:	
3F4. Call Aquatic Club	Contact:		Phone:	
	Alt:		Phone:	
3F5. Call ASU Recreation Office	Contact:		Phone:	
	Alt:		Phone:	
3F6. Other Lake Users	Contact:		Phone:	
	Alt:		Phone:	
3F7. Private Developers	Contact:		Phone:	
	Alt:		Phone:	
3G. Call Maricopa County Sheriff's Office	Contact:	On Duty Personal	Phone:	256-1030
3H. Call ASU Police Department	Contact:	Main Office	Phone:	965-3456
	Alt:	Chief's Office	Phone:	965-5056
3I. Call Maricopa County Department of Emergency Management	Contact:	Duty Officer	Phone:	(602) 273-1411
	Alt:	After hours calls are automatically forwarded.		
Maricopa County Department of Emergency Management Calls				
3I1. Call Central Arizona Chapter of the American Red Cross	Contact:	Harry Doyle	Phone:	336-6660
			Mobile:	571-7782
			Home:	547-3639
	Alt:	Perod Ayala	Phone:	336-6671
			Mobile:	571-7781
			Home:	252-4746
3I2. Call Arizona Division of Emergency Management	Contact:	Duty Officer	Phone:	244-0504
	Alt:	Lou Tarmmel	Phone:	231-6203
			Home:	720-1319
3I3. Call Phoenix Emergency Management Coordinator	Contact:		Phone:	485-2077
			Pager:	888-709-3309
	Alt:		Phone:	262-7496
3I4. Call Avondale Fire Department	Contact:	Paul Adams	Phone:	932-5805
	Alt:	Lou Gardunio	Phone:	932-5803
3I5. Call Arizona Department of Public Safety	Contact:	Main Office	Phone:	223-2000
	Alt:		Phone:	
3I6. Call Maricopa County DOT	Contact:	Cindy Robinson	Phone:	506-8796
			Pager:	660-7376
	Alt:	Tom Buick	Phone:	506-4622
3I7. Call Goodyear Fire Department	Contact:	Mark Gainars	Phone:	932-2300
	Alt:	Mike Ulman	Phone:	932-2300

318. Call Tolleson Police Department	Contact: Rick Patcsieder	Phone: 936-7187
	Alt: Ruben Doudos	Phone: 936-7187
319. Call Buckeye Police Department	Contact: Harry Bishop	Phone: 386-4421
	Alt: Stewart Prigge	Phone: 386-4421
3110. Call Gila River Indian Community, Tribal Police Department	Contact: Duty Person	Phone: 520-796-0415
	Alt: John Imeods	Phone: 520-796-0416
3111. Call Leveen School District	Contact: Connie Gibbons	Phone: 237-9100
	Alt: Pudley Stringer	Phone: 237-9100
3112. Call Tolleson Union High School District	Contact: Kino Flores	Phone: 247-4222
	Alt: Tony Aguirre	Phone: 936-8370
3113. Call Littleton School District	Contact: Star Weltzin	Phone: 936-6581 936-3338 936-5013
	Alt: Clinton Aycock	Phone: 936-3333 Home: 548-8872
3114. Call Liberty School District	Contact: Sam Cianpharno	Phone: 483-6160 Home: 998-4602
3115. Call Arlington Canal Company	Contact: Main Office	Phone: 386-2162
3116. Call Buckeye Water Conservation District	Contact: Main Office	Phone: 386-4997
3117. Call National Weather Service	Contact: David Runyon	Phone: 374-4000 379-4611
3118. Arizona Public Service	Contact: ECC Headquarters	Phone: 250-1080
3119. Buckeye Irrigation Co.	Contact: Jackie Meak	Phone: 386-2196
	Alt: Jerrell Bowland	Phone: 386-2196
3120. Central Arizona Water Conservation District	Contact: Control Center	Phone: 870-2562
	Alt: Emergency Backup	Phone: 581-9375
3121. City of Phoenix Water Dept.	Contact: Dispatcher	Phone: 281-8000
3122. Los Angeles Corp of Eng.	Contact: Brian Tracy	Phone: 213-452-3527
	Alt: Joe Evelyn	Phone: 213-452-3525
3123. Rural Metro Corporation	Contact: Supervisor on duty	Phone: 945-6311
	Alt:	Phone:
3124. Southwest Gas Corporation	Contact: Dispatch Center	Phone: 271-4277
	Alt: Art Heady	Phone: 484-5236
3125. USBR, Arizona Projects Office	Contact: Tom Burbey	Phone: 395-5604
	Alt:	Phone:
3126. Maricopa County Highway Dept	Contact: Alex or George	Phone: 508-8664
3J. Call Lake Security Staff	Contact:	Phone:
	Alt:	Phone:

\* If the SRP initiates an upstream reservoir release, then the guidelines in the appropriate **SRP EAP** should be followed. (Large Flow Release from Salt River Dam System for the purpose of this document shall be defined as flow in excess of 3,000 cfs as measured at Town Lake. This value will be evaluated following flow events.)

\*\* As companies are given permits to conduct activities in the Salt River channel, or as permits expire, this section of the notification sequence will need to be updated.

## **Responsibilities**

### **Tempe Police Department**

The Tempe Police Department will be the lead agency in responding to an emergency event. After receiving the 911 call, the Police Department will notify the lead emergency agencies, the City of Tempe, and operations personnel. Trained representatives of the Police Department listed in the notification sequence are responsible for the following:

1. Send representatives to the City's EOC.
2. Conduct evacuation operations along the riverbed.
3. Warn watercraft users of the dam failure and order them to get to shore immediately.
4. Patrol the area along the riverbank where the inundation maps show possible flooding.
5. Provide security in the area of the breach and areas where rescue operations are being conducted.
6. Notify the agencies listed in the notification sequence.

### **Town Lake Operations Supervisor**

The trained Town Lake Dam Operations Supervisor or their designated official representative is responsible for the following:

1. Recall off-duty personnel as required.
2. Dispatch trained observers to monitor the situation and determine whether anything can be done to stop or reduce the outflow of water from the lake.
3. Ensure that no additional watercraft is launched onto the lake.
4. Notify the agencies listed in the notification sequence.

Warning and evacuation planning are usually the responsibilities of the entities having statutory obligation. However, in an emergency, there may be situations in which following the proscribed steps may not suffice, such as in the case of a person or group of persons just upstream or downstream of the dam. In this case, the dam owner/operator should arrange to notify that person directly while also coordinating the effort with the appropriate officials.

The Town Lake Operations Supervisor is designated as the Emergency Action Plan (EAP) coordinator who is responsible for EAP-related activities, including (but not limited to) preparing revisions to the EAP, coordinating training, seminars, drills, and etc. This person is also specified as the lead contact if any involved parties have questions about the plan.

## **Tempe Fire Department**

The trained representatives of the Tempe Fire Department listed in the notification sequence is responsible for the following:

1. Activate the Tempe EOC, and provide the necessary representatives.
2. Dispatch the appropriate units to Town Lake to conduct any rescue efforts that may be required.
3. Dispatch an emergency medical response unit to Town Lake.

## **Maricopa County Department of Emergency Management**

The trained representatives of the Maricopa County Department of Emergency Management listed in the notification sequence is responsible for the following:

1. Activate the county EOC.
2. Notify the agencies listed in the notification sequence.

## **Phoenix Police Department**

Trained representatives of the Phoenix Police Department listed in the notification sequence are responsible for the following:

1. Notify and/or evacuate any personal that is conducting sand and gravel operations within the Salt River inundation area.
2. Send representatives to the City's EOC.
3. Conduct evacuation operations along the riverbed.
4. Patrol the area along the riverbank where the inundation maps show possible flooding.
5. Provide security in the area of the breach and areas where rescue operations are being conducted.

## **General Notes**

1. In the advent of a downstream dam breach, the flood wave will reach Tempe's boundary with the city of Phoenix in approximately 18 minutes. The rapid travel rate of the flood wave will make it difficult to conduct timely evacuation operations. The flood wave should remain entirely within the channel of the Salt River, so the only potential evacuations within the river would be personnel from the sand and gravel operations and transients who have taken up temporary residences in the riverbed. The sand and gravel operations will be notified through callout lists of the Phoenix Police Department. The appropriate police departments will conduct searches for and evacuation of transients. In

unincorporated areas, the Maricopa County Sheriff's Office will conduct the search and evacuation efforts.

2. In the advent of an upstream dam failure, the flood wave will travel up to Grade Control Structure #5 in a very short time. The rapid travel rate of the flood wave will make it difficult to conduct timely evacuation operations. The Tempe Police Department will evacuate the inundation area if sufficient warning time is available.

## Plan Approval

The official representatives of the following agencies have approved this plan.

Agency	Representative	Title	Signature	Date
City of Tempe	Steve Neilsen	Rio Salado Project Manager		
Tempe Fire Department	Cliff Jones	Fire Chief		
Tempe Police Department	Ron Burns	Police Chief		
Maricopa County Department of Emergency Management	Tim Newbill III	County Emergency Planner		
Salt River Project	Paul Cherrington	Manager Water Engineering and Transmission		

## **Emergency Event Identification, Evaluation, and Classification**

### **Failure of Downstream Dam**

If one of the downstream dam segments (bladders) fails, the flood wave will be contained within the Salt River channel with initial hydraulic conditions roughly equivalent to the currently accepted 10-year discharge on the Salt River. The flood hazard in the channel would be significant for several miles downstream, but the flood wave would naturally attenuate rapidly downstream of the channelized portions of the Salt River. The initial discharge at the breach location would be approximately 45,000 to 50,000 ft<sup>3</sup>/sec, with a velocity of 19.6 ft/sec and a depth of 12 feet. From about 51<sup>st</sup> Avenue downstream, the velocities would generally be 3 ft/sec or less. The maximum depth at this point would be 3 feet or less. No downstream bridges would be threatened by the release, but all grade crossings of the Salt and Gila Rivers downstream of the dam would need to be closed as a precaution.

If the failure occurs at one of the near-bank gates, the flow will travel about 1,080 feet farther downstream before reaching the opposite bank than it would have taken if it had occurred at one of the central gates. With that exception, the inundation pattern is identical regardless of breach location.

The flood wave will travel at an average rate of 8 miles/hr. See the "Inundation Maps" section in the appendix for a table that summarizes the time required for the flood wave to reach points downstream of the dam, along with the peak discharge, depth, and velocity of the flood wave at those locations.

A gate failure leading to a sudden water release would create severe in-channel conditions for 2 ½ hours. At that point, the reservoir would be down to only about 4 percent of its original volume. The release of water from Town Lake would be essentially over within about 4 hours.

In the unlikely event that this type of failure occurs, record the time of the event and follow the instructions listed in the "Responsibilities" section.

### **Failure of Upstream Dam**

The flood wave resulting from a sudden failure of a segment (bladder) of the upstream dam would travel upstream in the Salt River channel to Grade Control Structure #5, which is located about 2,000 feet upstream of the upstream dam (just downstream of McClintock Drive). The flood wave would be about 2 feet deep, and it would reach Grade Control Structure #5 in about 4 minutes. Since the low point in the crest of the grade control structure is only approximately 6 inches to one foot below the normal Town Lake surface elevation of 1,148', it is anticipated that the grade control structure will terminate upstream travel of the flood wave and essentially impound all the water that would spill from Town

Lake. It is anticipated that only shallow ponding (less than one foot deep) may extend upstream of the grade control structure. Thus the flood hazard would be significant between the upstream dam and Grade Control Structure #5, but it would be minimal or nonexistent beyond the grade control structure. The entire inundation area resulting from a failure of the upstream dam would lie within Tempe's city limits.

In the unlikely event that this type of failure should occur, record the time of the event and follow the instructions listed in the "Responsibilities" section.

## **Releases from the Salt River Dam System**

The Salt River Project (SRP) releases water over the Granite Reef Diversion Dam when they determine such releases are warranted for river/reservoir operation. Releases could be as high as the standard project flood estimated to be 250,000 ft<sup>3</sup>/sec. SRP is typically able to provide from 12 to 24 hours notification of upstream reservoir releases reaching the Town Lake as well as estimated release rates. The 100-year flood on the Salt River in the vicinity of Town Lake is 169,000 ft<sup>3</sup>/sec, while the 50-year flood is 140,000 ft<sup>3</sup>/sec, the 10-year flood is 55,000 ft<sup>3</sup>/sec, and the 5-year flood is 20,500 ft<sup>3</sup>/sec.

Both the upstream dam and the downstream dam on Rio Salado Town Lake will deflate automatically when certain levels of flow are reached in the riverbed. The upstream dam fully deflates over a period of one hour when the discharge in the Salt River channel exceeds approximately 30,000 ft<sup>3</sup>/sec. This rate of flow equates to a water surface elevation of 1,152 feet upstream of the dam or a lake level elevation of 1,150 feet. The crest heights of both the upstream and the downstream dams are 1148 feet. The downstream dam begins to deflate incrementally when the discharge in the Salt River channel over the dam is approximately 5,000 ft<sup>3</sup>/sec. As the flow rate of the river increases, the downstream dam deflates incrementally, as necessary, to maintain a lake level designated in the Lake Operation Plan.

If a release is anticipated that will require full deflation of the dams, the Town Lake Operations Supervisor may elect to lower the lake level in advance of the release reaching the Town Lake. This will allow inspection of the dam bladders, anchor systems etc. It would also allow the vendors and concessionaires to make preparations to reduce hazard and loss.

If an event of this type occurs, record the time of the event and follow the instructions listed in the "Responsibilities" section.

## **Other Flood Events**

During local rainfall in the Salt River basin downstream of Granite Reef Dam, rainfall and discharges to the Salt River from local storm drains will be captured by the upstream dam. If the runoff volume exceeds the capacity of the upstream dam impoundment, water will overtop the upstream dam and flow into Town Lake. This will cause a similar amount to be displaced over the downstream dam. Under this scenario, no operational response is

required. Water levels will be controlled by the automatic level-control feature in the downstream dam control system.

Flooding from the Indian Bend Wash (IBW) is also managed in the same way. The IBW watershed has an estimated 100-year peak discharge of approximately 30,000 ft<sup>3</sup>/sec. At discharge rates of 30,000 ft<sup>3</sup>/sec or less, flow will pass over the both the upstream and downstream dams. Flows resulting from more frequent floods may require evacuation of boats and recreational activities from the lake and downstream areas. Discharges of up to the 100-year event will required no additional manual response.

If and when these types of scenarios occur, record the time of the event, and monitor the event closely to respond appropriately if an emergency event as listed above does occur.

### **Other Unusual Events**

Other types of non-emergency events have the possibility of turning into an emergency event of the type listed above. These include the following:

- Loss of power to the site.
- Failure of emergency power generators.
- Problems with automatic level controls.
- Failure of blowers.
- Holes or punctures in the bladders.
- Operational releases.

In these instances, record the time of the event, and follow instructions given in the "Town Lake Manual of Operation," Chapter II, Section C & D. In addition, the following persons and agencies need to be notified that an operations problem has occurred at the Town Lake Dam site that has the possibility of becoming a major problem. Moreover, in the advent of the operations problem turning into a major failure, the situation should be continuously monitored, so the appropriate action listed in the "Responsibilities" section can be taken out in a timely manor. Notify the following:

Call Tempe Police Department (911)

Call Town Lake Operations Supervisor (if not on duty)

Call off-duty personnel

Call Tempe Fire Department

Call Maricopa County Department of Emergency Management

## Preventative Actions

### Access to the Site

#### Upstream Dam Control Building

To access the Upstream Dam Control Building:

(See the map Access to the Upstream Dam Control Building.)

- Take McClintock Drive to the north side of the Red Mountain Freeway
- Turn east on a dirt access road through Gate A
- Head east about 100 feet
- Turn right at dirt road and head south toward Salt River (under the freeway).
- Turn right again, heading west along levee road until reaching Gate B
- Continue on levee road west, emerging on south side of the freeway at the Upstream Dam Control Building.

#### Downstream Dam Control Building

The Downstream Dam Control Building may be reached from both the west and east.

To reach the Downstream Dam Control Building from the west:

(See the map West Access to the Downstream Dam Control Building.)

- Take Priest Drive north to the Red Mountain Freeway
- Turn right on the access road and head east (do not enter the freeway)
- Proceed east to Gate D on the right about half way to Center Parkway
- Enter through the gate onto the bike path heading east
- Drive on the bike path east about one-half mile to the Downstream Dam Control Building.

To reach the Downstream Dam Control Building from the east:

(See map East Access to the Downstream Dam Control Building.)

- Take Curry Drive or Washington Street to the Loop Drive (Loop Drive connects to both roads, bypassing Mill Avenue, and runs under the freeway)
- Drive south to either Gate E or F
- Continue south on the Loop Drive until reaching the bike path
- Drive onto the bike path heading west
- Drive under the Railroad Bridge and continue west about one-half mile to the Downstream Dam Control Building.

Contacts for access to all gates and the Dam Control Buildings are shown in the table that follows:

	Agency	Contact for Access	Phone
Primary Contact	SRP	Association Dispatch Center (ADC)	236-5296
Alternate Contact	Tempe	Papago Water Treatment Plant Control Room Water Management Department Control Center	350-2669

## **Alternate Systems of Communication**

Two Way Radios which are to be kept with or near the emergency supply locker in the equipment building at each dam site will be used in case of failure of the primary communication system (phone) or failure of other systems immediately available. These radios will be used to communicate with the Tempe Police Dept, Tempe Fire Dept, and the Tempe Water Management Department Control Center. The radios need to be kept in a fully charge state and should annually be check for correct operation. It is the responsibility of the Town Lake Operations Supervisor to maintain the radios.

## **Emergency Supplies and Resources**

The following is a list of emergency supplies that should be kept at each dam site. The supplies should be kept in the equipment building in a locker or storage area that is clearly marked. It is the responsibility of the Town Lake Operations Supervisor to maintain the supplies.

Emergency Repair Kit for the Bridgestone Bladders

First Aid Kit

Blankets

Flash Light and Extra Batteries (rechargable)

Basic Tool Kit

Two Way radio for contacting the following agencies:

    Tempe Police Dept.

    Tempe Fire Dept.

    Tempe EOC.

Tempe Police Department will contact:

    Phoenix Police Dept.

    Phoenix Fire Dept.

    Phoenix EOC.

    Maricopa County EOC

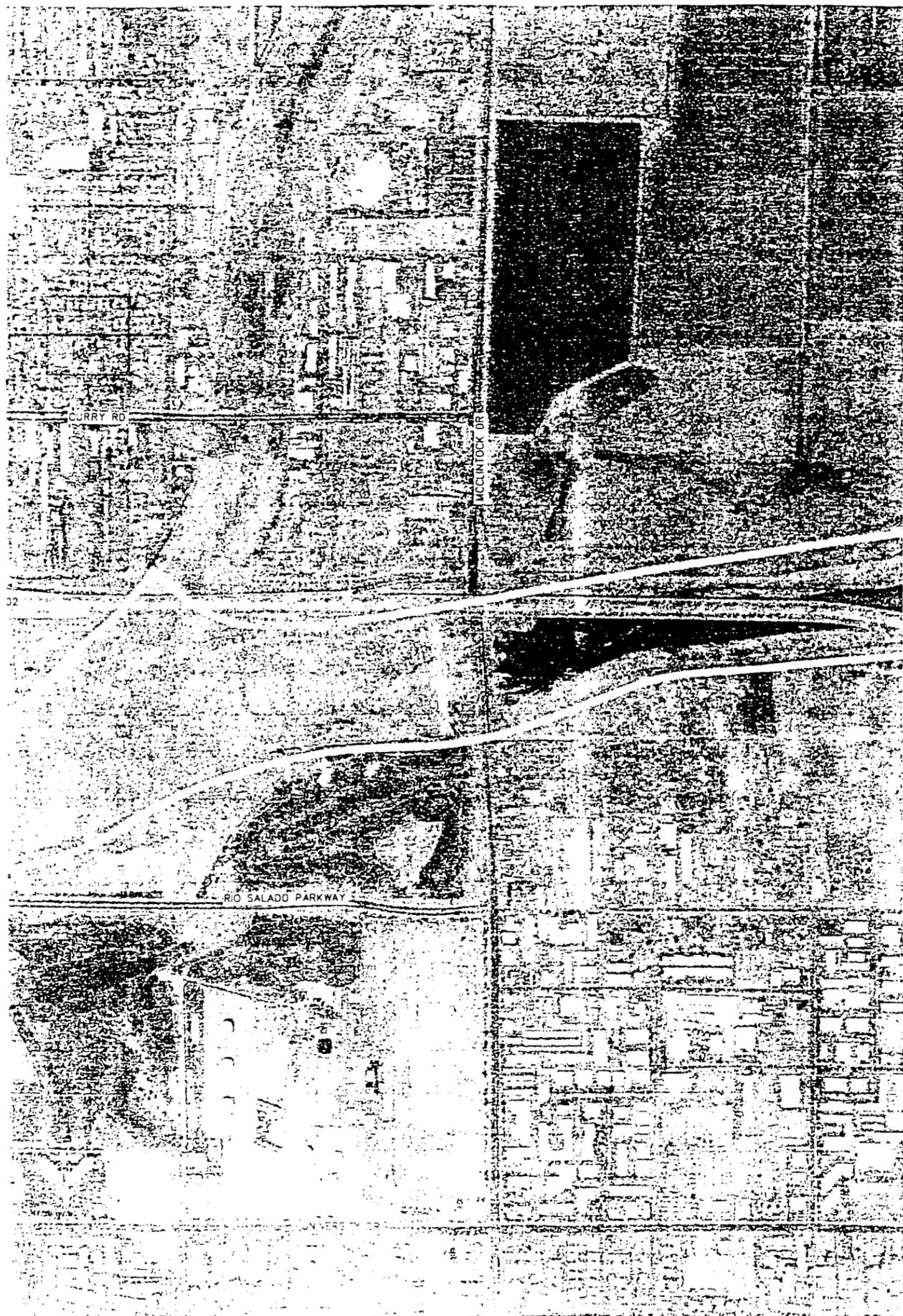
    Maricopa County Sheriff Dept.

Please see the Town Lake Manual of Operation, Tab 9 Section C.8 (upstream dam) and Tab 10 Section D.8 (downstream dam) for repair of the rubber dam.

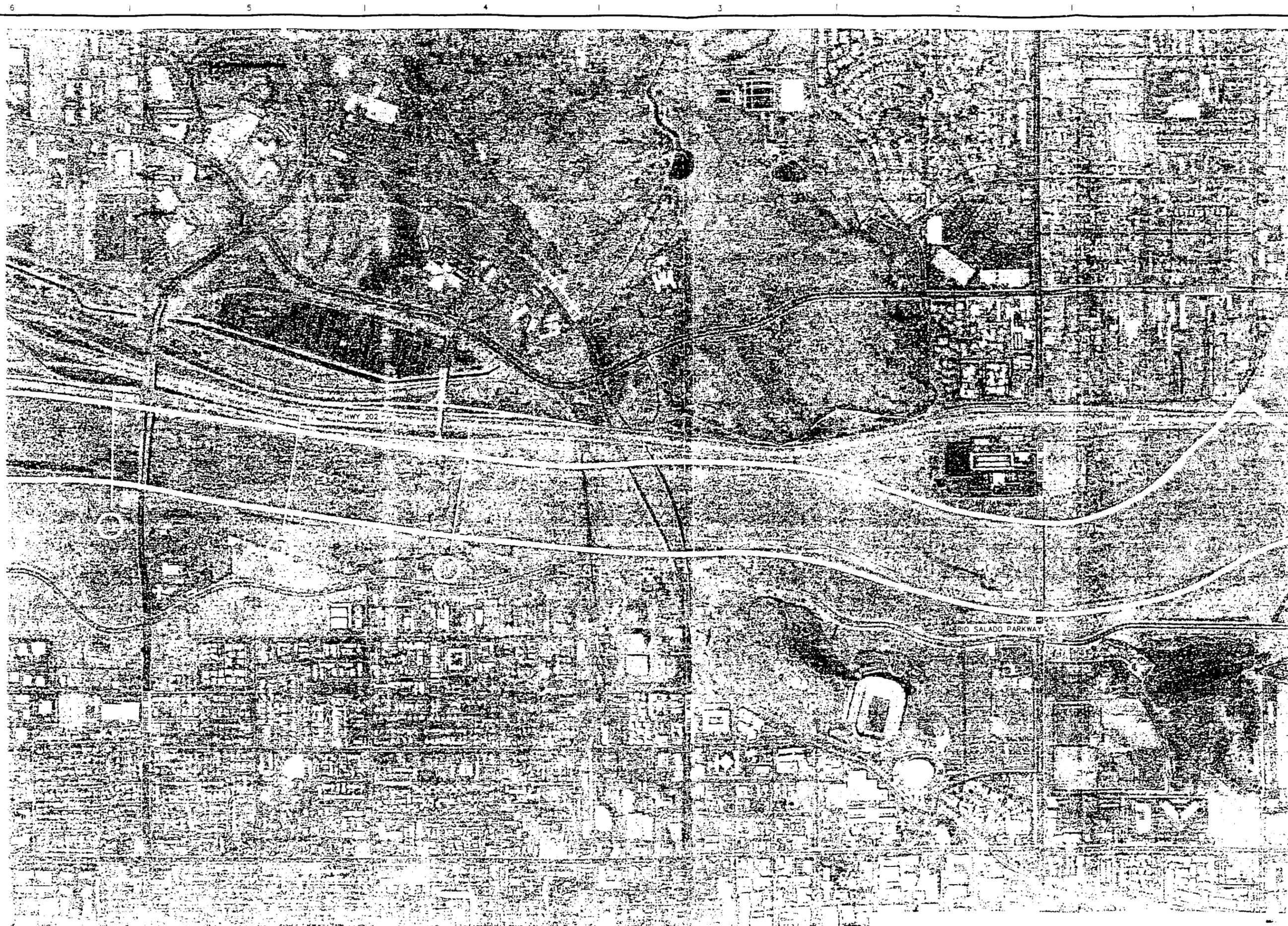
## Inundation Maps

The following maps and table are applicable to a downstream dam failure. The scale on the maps is approximate, and the x-section locations were copied from the inundation maps by CH2M Hill, so they should not be used for any type of engineering measurement. Any flow from an upstream dam failure is entirely contained within the channel, so no inundation map is needed. For flows that involve large-scale releases from the Granite Reef Dam, see the EAP manual for that structure. The table below summarizes the estimated times to peak, peak discharges and maximum depth and velocity for a sudden failure of a single outside dam segment.

X-Section #	Distance Below Dam	General Location	Time from Failure	Peak Discharge (cfs)	Depth (feet)	Velocity (fps)
1	0	Dam	10 seconds	49,400	12.0	19.6
2	2,300'	East of Priest Drive	6 minutes	45,000	5.0	12
3	4,200'	Below Priest Drive	8 minutes	44,500	4.1	11.4
4	2 miles	Hohokam Expressway	18 minutes	39,530	6.8	9
5	3 miles	University Drive	28 minutes	36,280	6.5	8
6	4 miles	Elwood & Harbor Rd.	36 minutes	34,130	8.1	9
7	5 miles	24th Street	49 minutes	30,960	6.0	7
8	6 miles	16th Street	1.1 hours	28,400	6.2	6
9	7 miles	Broadway Road	1.3 hours	26,240	5.9	6
10	8 miles	3rd Avenue	1.6 hours	23,240	5.5	5
11	9 miles	13th Avenue	1.9 hours	21,080	5.2	5
12	10 miles	23rd Avenue	2.1 hours	19,780	4.4	5
13	11 miles	31st Avenue	2.5 hours	17,860	2.6	4
14	12 miles	39th Avenue	2.9 hours	16,580	5.2	4
15	13 miles	47th Avenue	3.4 hours	14,720	2.9	3
16	14 miles	West of 51st Avenue	4.0 hours	13,380	3.0	3
17	15 miles	Loop 101 alignment	4.4 hours	12,950	2.7	4
18	16 miles	71st Avenue	4.7 hours	12,610	2.8	4
19	17 miles	West of 75th Avenue	5.2 hours	12,150	3.0	3
20	18 miles	West of 83rd Avenue	6.1 hours	10,670	3.4	2
21	19 miles	West of 91st Avenue	7.0 hours	9,850	3.3	2



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CITY OF TEMPE TOWN LAKE PROJECT INUNDATION MAP X-SECTIONS	
Project Manager	S. WALKER
Designed	
Drawn	C. MITCHELL
Checked	
Project Number	09039.004
Date	FEBRUARY 1999
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 CITY OF TEMPE  
 TOWN LAKE  
 PROJECT  
 INUNDATION  
 MAP  
 X-SECTIONS

Project Manager	S. WALKER
Designed	
Drawn	C. MITCHELL
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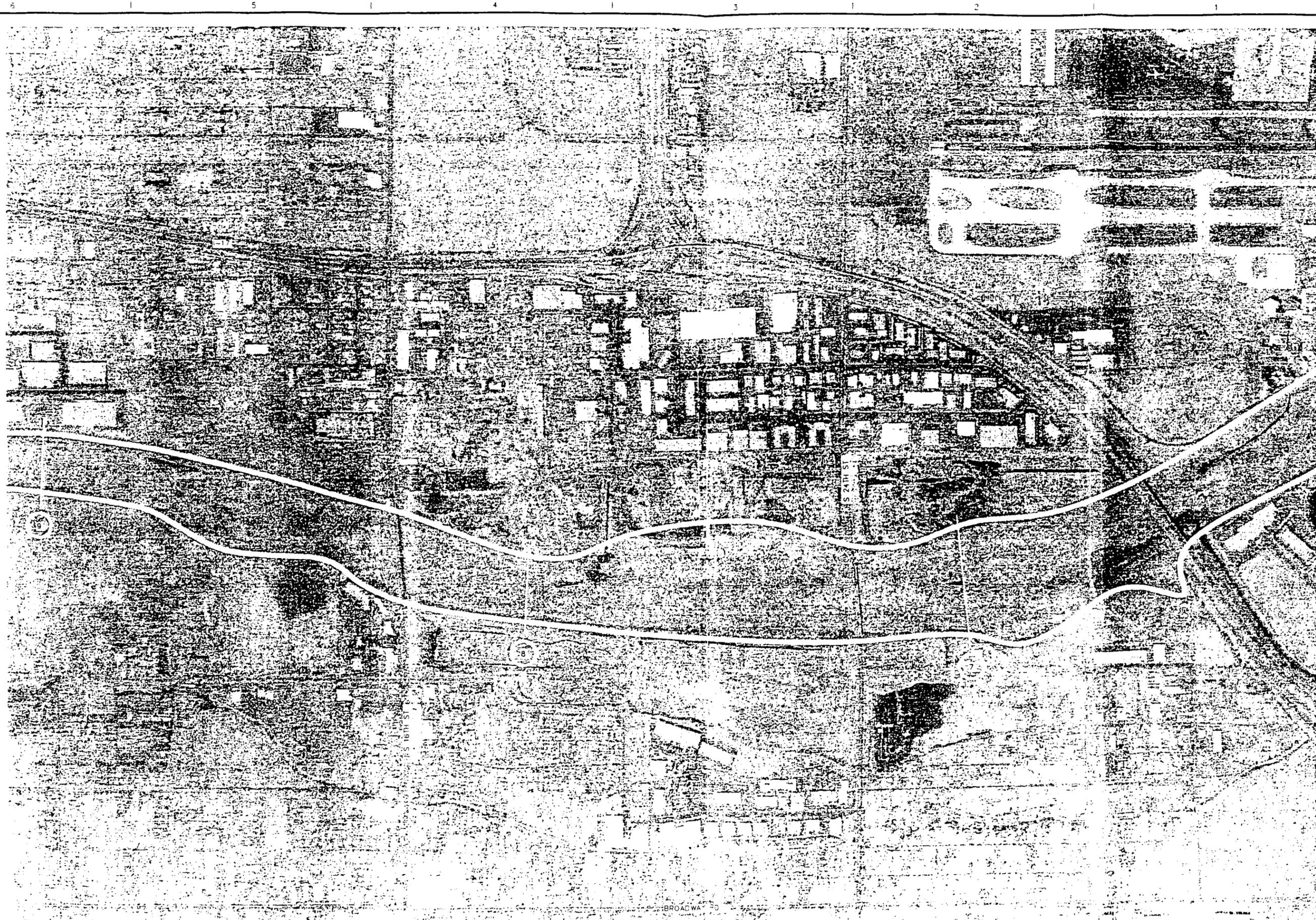
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 MAP  
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Project Manager  
 S. WALKER  
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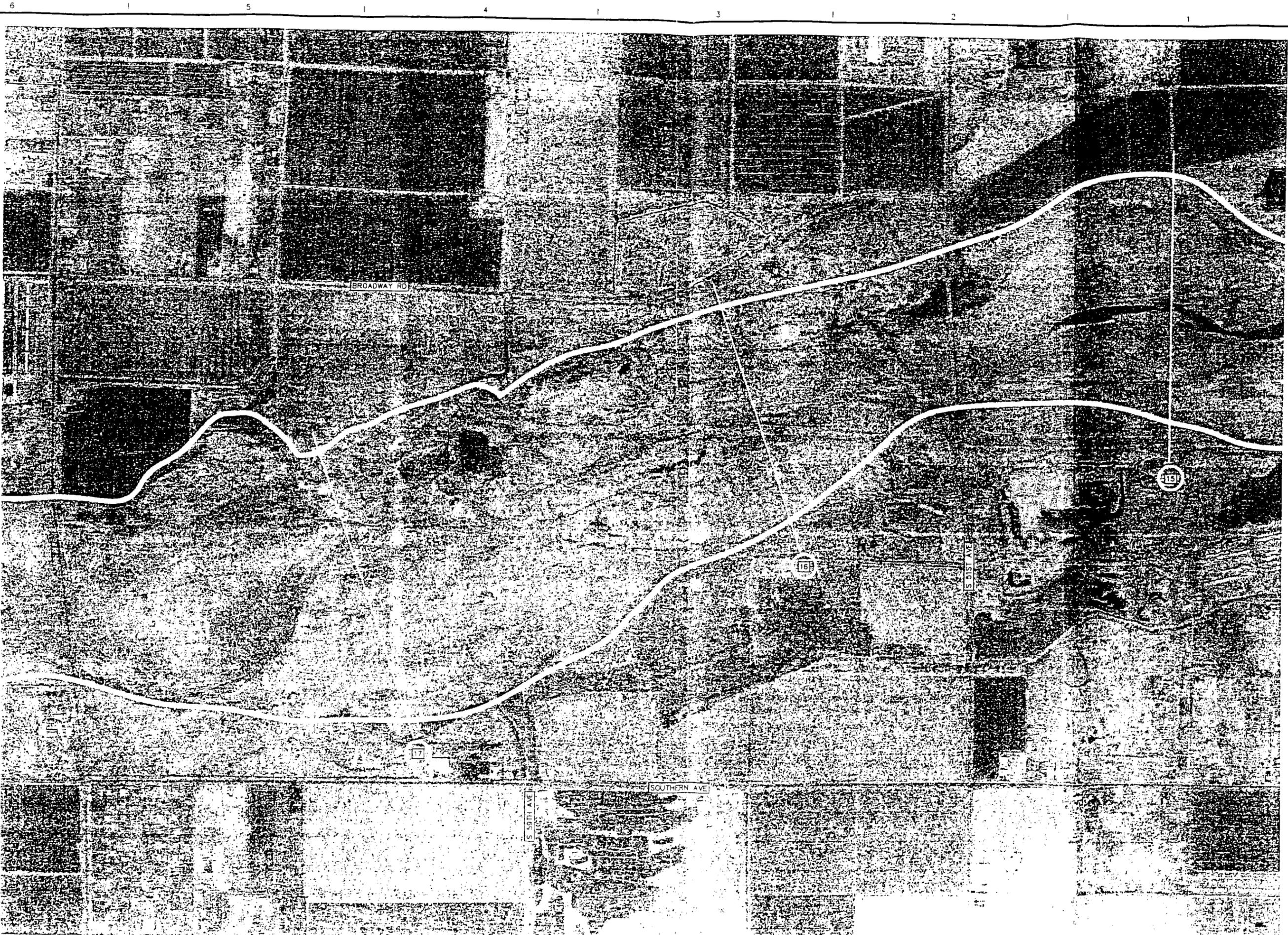
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PROJECT**

Project Manager  
S. WALKER

Designed

Drawn  
C. MITCHELL

Checked

Project Number  
09039.004

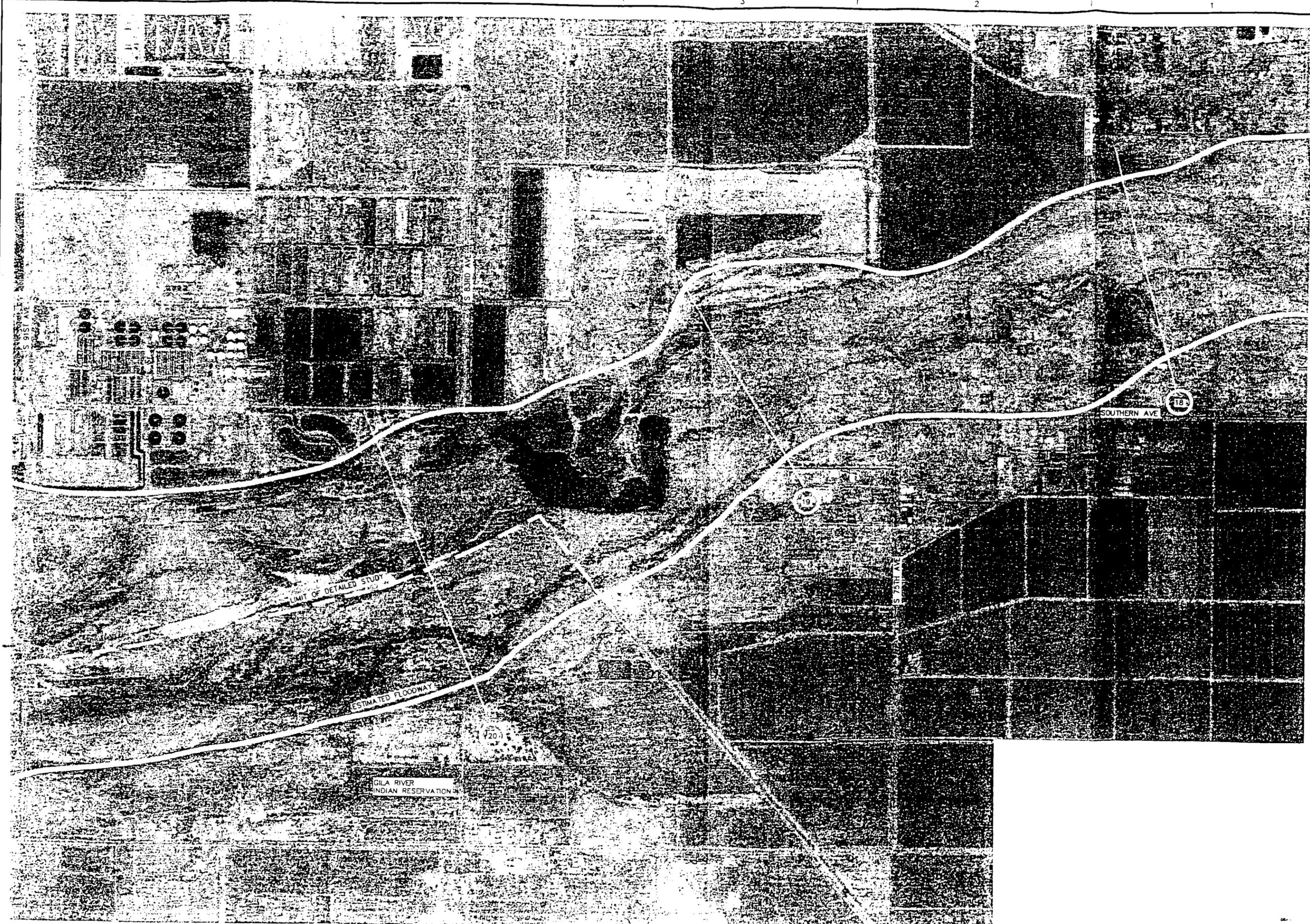
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 CITY OF TEMPE  
 TOWN LAKE  
 PROJECT  
 INUNDATION  
 MAP  
 X-SECTIONS

Project Manager  
 S. WALKER  
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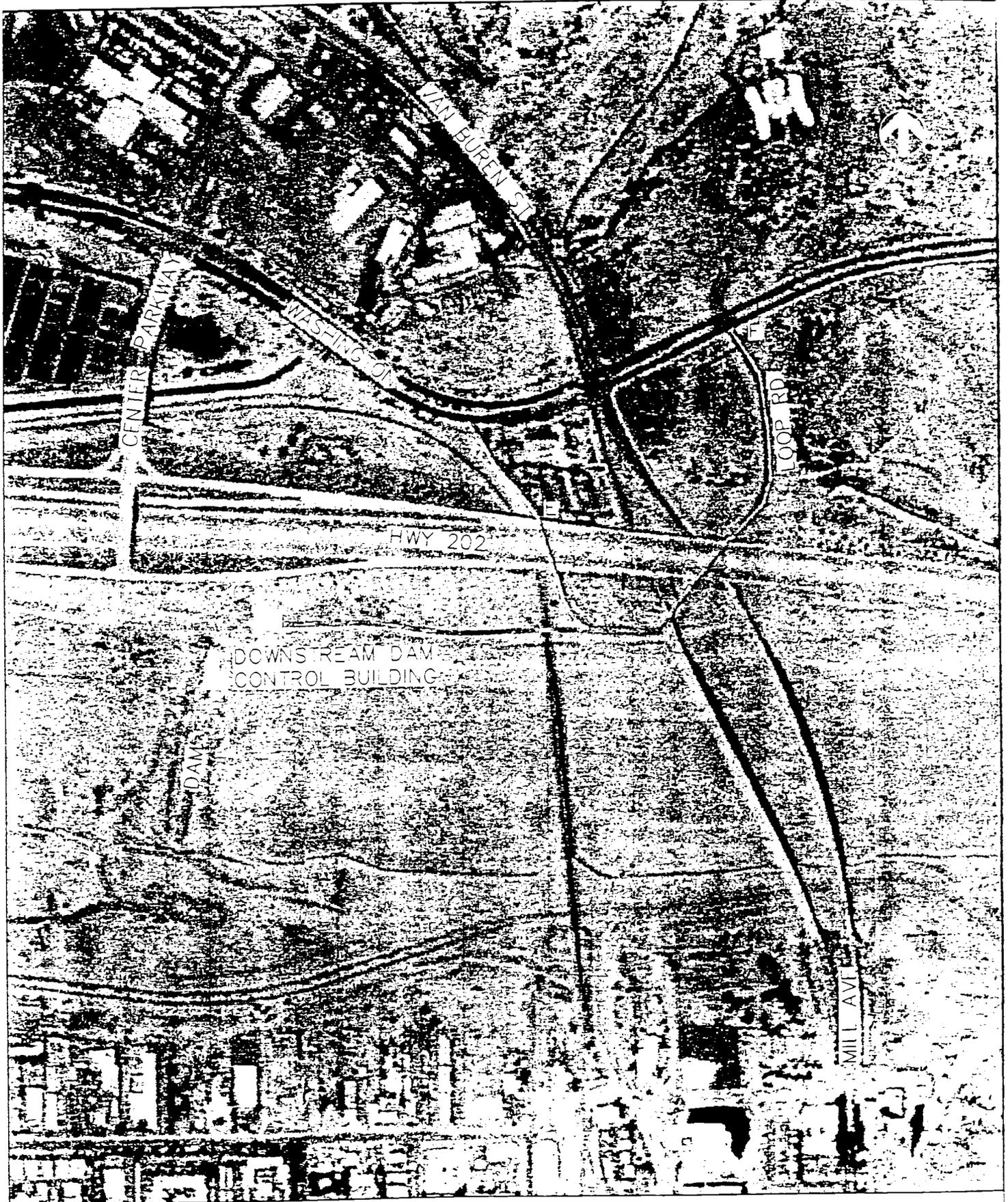




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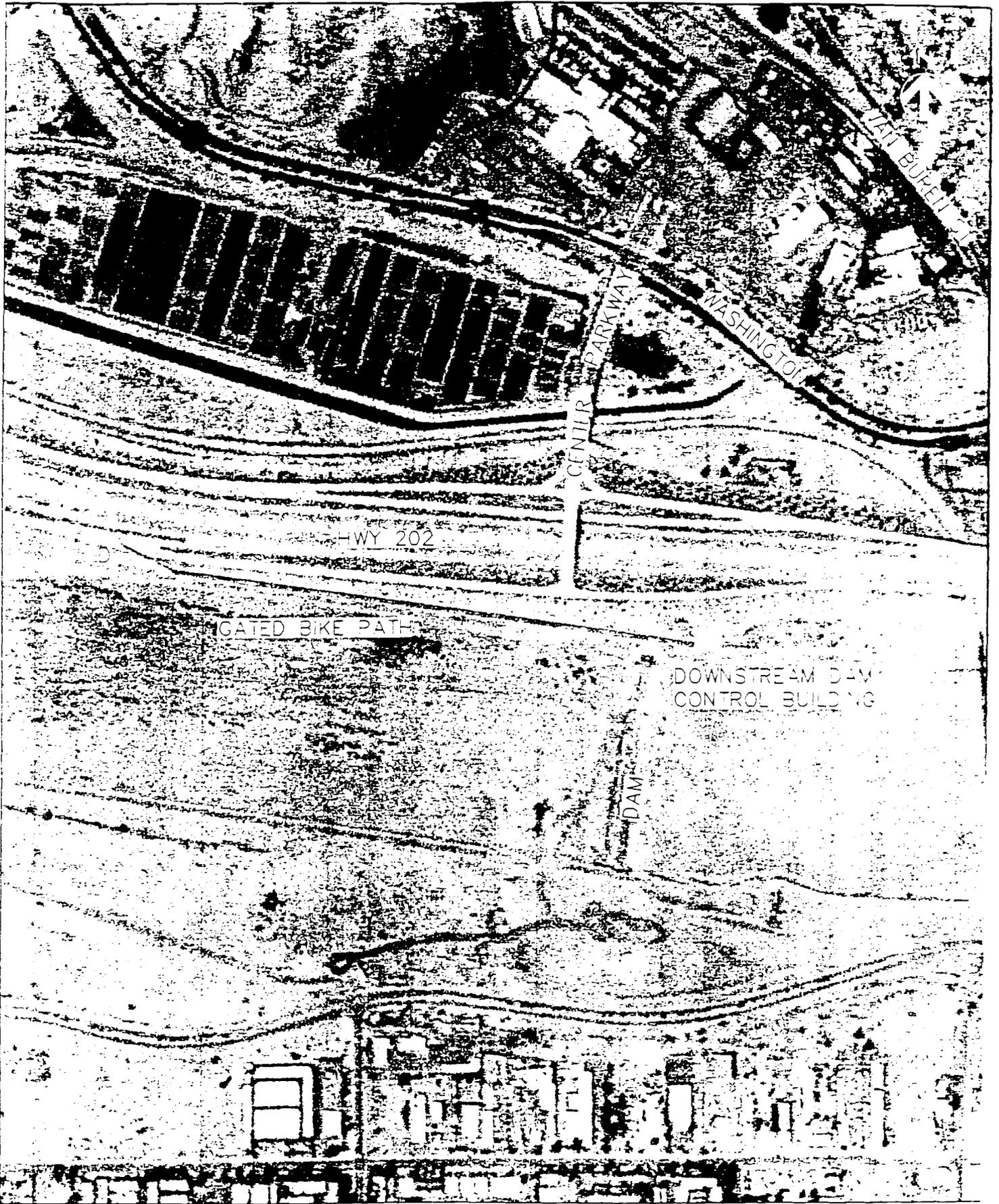
ACCESS TO THE  
UPSTREAM DAM  
CONTROL BUILDING



HDR



EAST ACCESS TO  
DOWNSTREAM  
DAM CONTROL BUILDING



HDR



WEST ACCESS TO  
DOWNSTREAM  
DAM CONTROL BUILDING

## **Description and Location of the Dam**

The Rio Salado Town Lake is a 220-acre recreational lake created in the dry riverbed of the Salt River. The lake, located between McClintock Road and Priest Drive, is approximately 2 ½ miles long by 1,000 feet wide and a range of depth from 19 feet at the downstream end to approximately 5 feet at the upstream end. The lake impoundment is formed by two Bridgestone inflatable rubber dam systems. The downstream dam consists of four 16 feet-high inflatable bladders founded on a concrete and roller compacted concrete (RCC) foundation 3 feet above the river grade. It was installed in four sections for a total length of 960 feet. There are three piers between the rubber dam sections and abutments at each end.

The upstream dam is approximately 4.7 feet high and is also composed of four segments each approximately 240 feet long. The foundation of the upstream dam is approximately at the natural river grade.

During river flow or flooding conditions in either the Salt River or Indian Bend Wash, water will flow over the upstream and downstream dams. Up to flow rates of approximately 30,000 cfs, both dams will be maintained in an inflated condition. Above 30,000 cfs, the downstream dam will gradually be deflated to maintain an approximate water surface elevation of 1,150 ft. At flow rates above 50,000 cfs, the dams will be fully deflated. Detailed information on the inflation/deflation scenarios can be found in previous sections of this document.

## **Normal Flow**

The Salt River in the project reach is a normally dry ephemeral wash. A series of dams upstream of the project site regulate flows in the Salt River. The closest of these dams is Granite Reef diversion dam, located approximately 15 miles upstream of the Rio Salado & Town Lake. The largest tributary to the Salt River in the project reach is Indian Bend Wash, which enters the Salt River just below the upstream dam. Indian Bend Wash is unregulated and ephemeral.

Under normal conditions, no flow enters Town Lake from either the Salt River or Indian Bend Wash. During normal operating conditions, the lake will be maintained at a water level elevation of approximately 1,148 ft. Outflow from the lake will include seepage and evaporation. In-flows will include return flow from seepage recovery wells and replacement or "make up" water delivered to the lake by the Salt River Project.

In addition, a minor flow of approximately 20 cfs may be released over one or more of the downstream dam sections. This discharge is intended to improve the aesthetics of the dams and to cool the dam surfaces. The flow will be recaptured in the downstream energy dissipaters and returned to the lake by a pumping system.

The water surface elevation will be maintained through automatic level control function of the instrumentation and control systems on the dam. In response to diurnal temperature fluctuations, water level sensors, will cause either additional inflation or deflation of the dam bladder to maintain a constant elevation of 1,148 feet.

## Procedure on Updating the EAP Manual

The Town Lake Operations Supervisor is designated as the Emergency Action Plan, (EAP) coordinator who is responsible for EAP related activities, including (but not limited to) preparing revisions to the EAP, coordinating training, seminars, drills, and etc. This person is also specified as the lead contact if any involved parties have questions about the plan.

Revision Number	Date Revised	<del>Reason</del>
Rev 1.2	Sept. 30, 1998	Initial release of the EAP manual. (DRAFT)
Rev 1.3	Feb. 12, 1998	Revised release of the EAP manual. (DRAFT)
Rev. 2.0	April 15, 1999	Final release of the EAP manual.
Rev. 2.2	Aug. 20, 1999	Incorporated stakeholder comments and changes

The following personnel / agencies should receive updated copies of this manual:

### Tempe Police Department

Mike Ringo  
120 East Fifth Street  
Tempe, Arizona 85281

Kevin Kotsur  
120 East Fifth Street  
Tempe, Arizona 85281

### Phoenix Police Department

Michael Debenedetto  
3443 South Central Avenue  
Phoenix, Arizona 85040

### Water Management Department

Don Hawkes  
31 East Fifth Street  
Tempe, Arizona 85280

### Rio Salado Project Manager

Steve Neilson  
P.O. Box 5002  
Tempe, Arizona 85280

### Maricopa County Sheriff Office

Larry Black

102 West Madison  
Phoenix, Arizona 85003

**Tempe Fire Department**

Ralph Stayner  
P.O. Box 5002  
Tempe, Arizona 85280

**Maricopa County Department of Emergency Management**

Tim Newbill  
2035 N. 52<sup>nd</sup> St.  
Phoenix, Arizona 85008-3403

**Salt River Project**

Joe Rauch  
PAB 201  
P.O. Box 52025  
Phoenix, Arizona 85072-2025

## Glossary

**Arizona Department of Environmental Quality (ADEQ)** -- The state agency that enforces EPA rules and regulations.

**Arizona Department of Water Resources (ADWR)** -- The state agency that has jurisdiction over permitted activities that impact the waters of Arizona.

**BREACH** -- An opening through a dam resulting from partial or total failure of the dam.

**DAM** -- A barrier constructed across a watercourse for the purpose of storage, control, or diversion of water.

**DAM SAFETY O&M PLAN** -- Section located in the Town Lake Manual of Operation to provide guidance to the City of Tempe in operating the Town Lake dams.

**EMERGENCY** -- A condition which develops unexpectedly, endangers the structural integrity of a dam and/or downstream property and human life, and requires immediate action.

**EMERGENCY ACTION PLAN (EAP)** -- A formal plan of procedures designed to minimize consequences to life and property in the event of an emergency at a dam.

**EMERGENCY OPERATIONS CENTER (EOC)** A centralized facility where representatives of various responding agencies can coordinate their efforts and send instructions out to their field units during a large scale emergency.

**FAILURE** -- The catastrophic breakdown of a dam, characterized by the sudden, rapid, and uncontrolled release of impounded water.

**INUNDATION MAP** -- A map showing areas that would be affected by flood conditions and/or by an uncontrolled release of reservoir water due to the failure of a dam.

**NOTIFICATION PROCEDURE** -- A sequence of the hierarchy for notification in an emergency situation, including who is to be notified, by whom, and in what priority.

**OPERATOR** -- Salt River Project.

**OWNER/OPERATOR** -- City of Tempe.

**RESPONSIBILITIES** -- Actions to be taken by the by the agency upon being notified that an emergency condition exists at Town Lake.

**SEQUENCE** -- See notification procedure.

**SALT RIVER PROJECT (SRP)** -- SRP is a private corporation that maintains operates dams, groundwater wells, and canals that carry water to municipal, agricultural and urban irrigators.

**TOWN LAKE OPERATIONS SUPERVISOR** -- Designated City of Tempe employee responsible for direction Town Lake operation and maintenance activities.