



# Federal Emergency Management Agency

Washington, D.C. 20472

July 5, 2019

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable Richard Elías  
Chairman, Board of Supervisors  
Pima County  
130 West Congress Street, 11th Floor  
Tucson, AZ 85701

IN REPLY REFER TO:

Case No.: 19-09-0058P  
Community Name: Pima County, AZ  
Community No.: 040073  
Effective Date of  
This Revision: **November 18, 2019**

Dear Mr. Elías:

The Flood Insurance Rate Map for your community has been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Oakland, California, at (510) 627-7175, or the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Sincerely,

Patrick "Rick" F. Sacbibit, P.E., Branch Chief  
Engineering and Modeling Division  
Federal Insurance and Mitigation Administration

List of Enclosures:

Letter of Map Revision Determination Document  
Annotated Flood Insurance Rate Map  
Annotated Flood Insurance Study Report

cc: The Honorable Jonathan Rothschild  
Mayor  
City of Tucson

Mr. Terry Hendricks, CFM  
Chief Hydrologist  
Pima County Flood Control District

Mr. Jacob Prietto, CFM  
Principal Hydrologist  
Pima County Flood Control District

Mr. Fred Felix  
Floodplain Administrator  
City of Tucson

Mr. Eric Shepp, P.E.  
Deputy Director  
Pima County Flood Control District



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Pima County Arizona (Unincorporated Areas)	CHANNELIZATION	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 040073		
IDENTIFIER	Santa Cruz Tributary West Branch	APPROXIMATE LATITUDE & LONGITUDE: 32.127, -111.010 SOURCE: USGS QUADRANGLE      DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*      NO.: 04019C2270L      DATE: June 16, 2011 TYPE: FIRM*      NO.: 04019C2860L      DATE: June 16, 2011		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 28, 2012 PROFILE(S): 235P SUMMARY OF DISCHARGES TABLE: 6	

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE(S) & REVISED REACH(ES)

Santa Cruz River Tributary West Branch – from just upstream of Valencia Road to just downstream of Los Reales Road

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Santa Cruz River Tributary West Branch	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (unshaded)	NONE	YES
	BFEs*	BFEs*	YES	YES

\* BFEs - Base Flood Elevations

### DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Engineering and Modeling Division  
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**OTHER COMMUNITIES AFFECTED BY THIS REVISION**

**CID Number:** 040076      **Name:** City of Tucson, Arizona

**AFFECTED MAP PANELS**

**AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT**

TYPE: FIRM\*    NO.: 04019C2270L    DATE: June 16, 2011  
TYPE: FIRM\*    NO.: 04019C2860L    DATE: June 16, 2011

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 28, 2012  
PROFILE(S): 235P  
SUMMARY OF DISCHARGES TABLE: 6

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# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### COMMUNITY INFORMATION

#### APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

#### COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Patrick "Rick" F. Sacbibit, P.E., Branch Chief  
Engineering and Modeling Division  
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Juliette Hayes  
Director, Mitigation Division  
Federal Emergency Management Agency, Region IX  
1111 Broadway, Suite 1200  
Oakland, CA 94607-4052  
(510) 627-7211

**STATUS OF THE COMMUNITY NFIP MAPS**

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**PUBLIC NOTIFICATION OF REVISION**

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at [https://www.floodmaps.fema.gov/fhm/bfe\\_status/bfe\\_main.asp](https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp)

LOCAL NEWSPAPER

Name: *Arizona Daily Star*

Dates: July 12, 2019 and July 19, 2019

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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City Hall  
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Tucson, AZ 85701

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Community Name: City of Tucson, AZ  
Community No.: 040076  
Effective Date of  
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IDENTIFIER	Santa Cruz Tributary West Branch	APPROXIMATE LATITUDE & LONGITUDE: 32.127, -111.010 SOURCE: USGS QUADRANGLE      DATUM: NAD 83	
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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**OTHER COMMUNITIES AFFECTED BY THIS REVISION**

**CID Number:** 040073      **Name:** Pima County, Arizona

**AFFECTED MAP PANELS**

TYPE: FIRM\*    NO.: 04019C2270L    DATE: June 16, 2011  
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**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

**PUBLIC NOTIFICATION OF REVISION**

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LOCAL NEWSPAPER

Name: *Arizona Daily Star*

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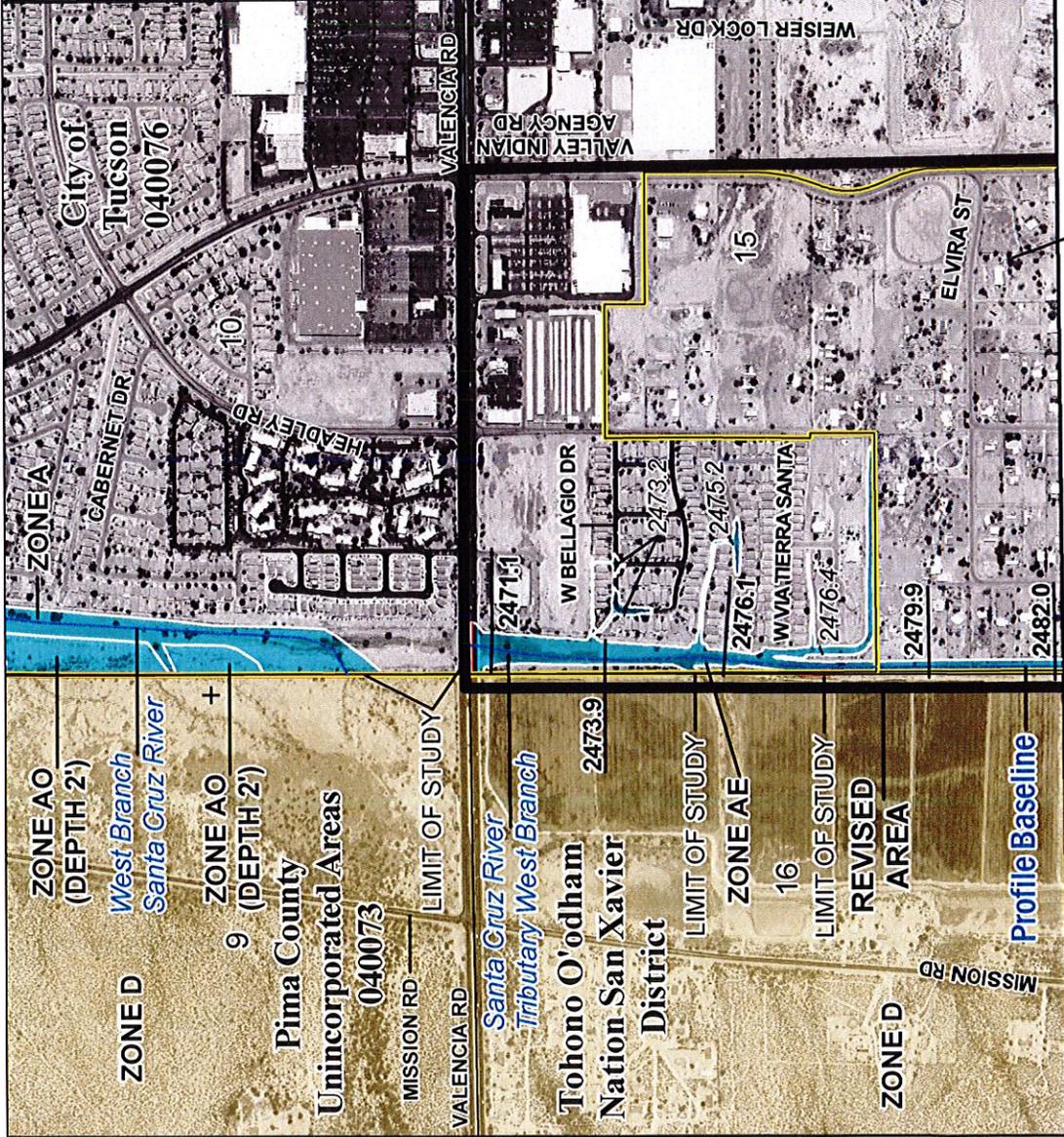
TABLE 6- SUMMARY OF DISCHARGES - continued

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cfs)			
		10-PERCENT	2-PERCENT	1-PERCENT	0.2-PERCENT
<b>SABINO CREEK</b>					
Upstream of confluence with Tanque Verde Creek	66.4	4,900	12,000	18,000	36,000
Upstream of confluence with Bear Creek	36.8	3,750	8,500	12,500	25,000
<b>SAHUARA WASH</b>					
At Pima Street	0.4	*	*	622	*
<b>SAN JUAN WASH</b>					
At La Cholla Boulevard	0.82	*	*	2,091	*
At confluence with West Branch Santa Cruz River	1.14	*	*	1,757	*
<b>SANTA CLARA WASH</b>					
At 12th Avenue	0.20	*	*	206	*
At Interstate Highway 19	0.39	*	*	338	*
<b>SANTA CRUZ RIVER</b>					
At Cortaro Road	3,503	21,800	48,000	70,000	107,400
Upstream of confluence with Canada del Oro Wash	3,232	21,800	48,000	70,000	107,400
Upstream of confluence with Rillito Creek	2,282	16,800	41,000	60,000	93,000
At Congress Street	2,222	16,800	41,000	60,000	93,000
At Drexel Road	2,101	16,800	41,000	60,000	93,000
At Continental Road	1,662	*	*	45,000	*
<b>SANTA CRUZ RIVER TRIBUTARY WEST BRANCH</b>					
At Valencia Road	2.67	*	*	4,386	*
<b>SILVERCROFT WASH</b>					
At confluence with Santa Cruz River	13.24	3,500	7,500	9,700	16,100
At Grant Road	8.70	1,700	3,800	5,200	10,000
At Speedway Boulevard	2.84	910	2,050	2,750	5,500
<b>SOPORI WASH</b>					
At U.S. Highway 89	164.0	6,770	14,300	19,900	47,860
At upstream limit of detailed study	110.0	6,120	12,960	18,000	43,200
<b>TANQUE VERDE CREEK</b>					
Upstream of confluence with Rillito Creek	241.0	10,500	24,000	34,000	68,000
Upstream of confluence of Sabino Creek	149.0	8,700	20,000	28,000	56,000
Near confluence with Agua Caliente Wash	99.6	7,300	17,500	23,000	46,000
Upstream of confluence of Canyon del Salto Creek	43.1	5,000	12,500	16,000	32,000

REVISED DATA



35°56'00"mN



JOINS PANEL 2288

35°55'00"mN

32° 07' 30"  
111° 00' 00"

499'000mE  
JOINS PANEL 2860  
**Pima County  
Unincorporated Areas  
040073**

**Without Base Flood Elevation (BFE)**  
Zone A, V, X, S0  
**With BFE or Depth** Zone AE, AO, AH, VE, AR  
**Regulatory Floodway**

**SPECIAL FLOOD HAZARD AREAS**

**OTHER AREAS OF FLOOD HAZARD**  
**OTHER AREAS**

**0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile** Zone X  
**Future Conditions 1% Annual Chance Flood Hazard** Zone X  
**Area with Reduced Flood Risk due to Levee** See Notes. Zone X  
**Area of Undetermined Flood Hazard** Zone D

**SCALE**

Map Projection:  
NAD 1983 HARN StatePlane Arizona Central FIPS 0202 Feet Intl.  
Western Hemisphere, Vertical Datum: NAVD 88

1 inch = 1,000 feet

0 500 1,000 2,000  
0 150 300 600

1:12,000  
Feet  
Meters

**FEMA**

**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
PIMA COUNTY, ARIZONA  
and Incorporated Areas

**PANEL 2270 OF 4750**

Panel Contains:  
COMMUNITY PIMA COUNTY  
TUCSON, CITY OF

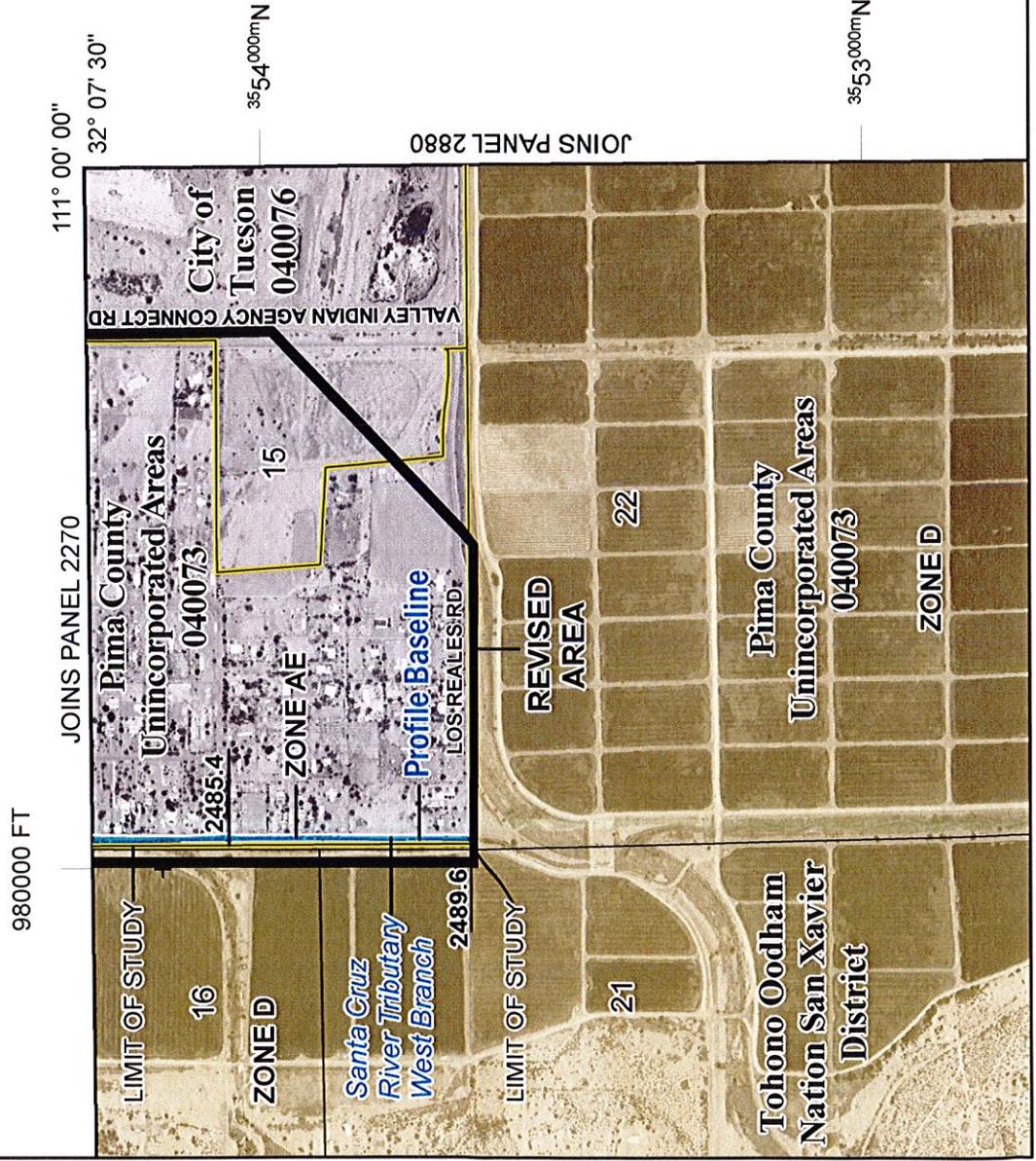
NUMBER 040073  
SUFFIX 040076

**REVISED TO  
REFLECT LOMR  
EFFECTIVE: November 18, 2019**

VERSION NUMBER 2.1.3.0  
MAP NUMBER 04019C2270L  
EFFECTIVE DATE JUNE 16, 2011

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 14 SOUTH, RANGE 13 EAST AND TOWNSHIP 15 SOUTH, RANGE 13 EAST.

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 15 SOUTH, RANGE 13 EAST AND TOWNSHIP 16 SOUTH, RANGE 13 EAST.



	Without Base Flood Elevation (BFE) <i>Zone A, V, AG, AR</i>
	With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
	Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
	Area with Reduced Flood Risk due to Levee <i>Zone X</i>
	See Notes. <i>Zone X</i>
	Area of Undetermined Flood Hazard <i>Zone D</i>

SPECIAL FLOOD HAZARD AREAS

OTHER AREAS OF FLOOD HAZARD  
OTHER AREAS

SCALE



Map Projection:  
NAD 1983 HARN StatePlane Arizona Central FIPS 5002 Feet Intl.  
Western Hemisphere, Vertical Datum: NAVD 88

**FEMA**  
NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP  
PIMA COUNTY, ARIZONA  
and Incorporated Areas

PANEL **2860** OF **4750**

Panel Contains:  
COMMUNITY PIMA COUNTY  
TUCSON, CITY OF

NUMBER 040073  
SUFFIX L

2860  
2860

**FEMA**  
NATIONAL FLOOD INSURANCE PROGRAM

**REVISED TO  
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VERSION NUMBER 2.1.3.0  
MAP NUMBER 04019C2860L  
EFFECTIVE DATE JUNE 16, 2011