



# Federal Emergency Management Agency

Washington, D.C. 20472

September 23, 2008

PC RFCD  
SEP 29 2008

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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

IN REPLY REFER TO:

Case No.: 08-09-0473P  
Community Name: Pima County, AZ  
Community No.: 040073  
Effective Date of  
This Revision: **October 23, 2008**

PC RFCD  
SEP 29 2008

Dear Mr. Elias:

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 Assistance Center 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/nfip>.

Sincerely,

Craig S. Kennedy, CFM, Program Specialist  
Engineering Management Branch  
Mitigation Directorate

For: William R. Blanton Jr., CFM, Chief  
Engineering Management Branch  
Mitigation Directorate

List of Enclosures:

Letter of Map Revision Determination Document  
Annotated Flood Insurance Rate Map

cc: (see attached list)

List of Courtesy Copies – Pima County, AZ

Mr. Michael Zeller, P.E.  
Tetra Tech, Inc.

Mr. Andy Dinauer  
Department of Transportation  
City of Tucson

Mr. Leo M. Smith, P.E.  
Floodplain Manager  
Pima County Regional Flood Control District

Ms. Suzanne Shields, P.E.  
Chief Engineer  
Pima County Regional Flood Control District

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

Mr. Bill Zimmerman  
Planning and Development Division Manager  
Pima County Regional Flood Control District

Mr. Brian Cosson, CFM  
NFIP Coordinator  
Office of Dam Safety and Flood Mitigation  
Arizona Department of Water Resources



# 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)	Culvert	Hydraulic Analysis Hydrologic Analysis New Topographic Data
	COMMUNITY NO.: 040073		
IDENTIFIER	Friendly Village Wash	APPROXIMATE LATITUDE & LONGITUDE: 36.300, -110.970 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 04019C1636 K DATE: February 8, 1999	NO REVISION TO THE FLOOD INSURANCE STUDY REPORT	
TYPE: FIRM*	NO.: 04019C1637 K DATE: February 8, 1999		
TYPE: FIRM*	NO.: 04019C1630 K DATE: February 8, 1999		

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map; \*\* FBFM - Flood Boundary and Floodway Map; \*\*\* FHBM - Flood Hazard Boundary Map

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

Friendly Village Wash - from approximately 1,500 feet upstream of Stone Loop Road to approximately 9,700 feet upstream  
Tributary to Friendly Village Wash - from the confluence with Friendly Village Wash to approximately 4,200 feet upstream

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Friendly Village Wash	Zone A	Zone A	YES	YES
	Zone X (unshaded)	Zone A	YES	NONE
Tributary to Friendly Village Wash	Zone A	Zone A	YES	YES
	Zone X (unshaded)	Zone A	YES	NONE

\* 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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Craig S. Kennedy, CFM, Program Specialist  
Engineering Management Branch  
Mitigation Directorate



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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.: 04019C1636 K DATE: February 8, 1999

NO REVISION TO THE FLOOD INSURANCE STUDY REPORT

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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Craig S. Kennedy, CFM, Program Specialist  
Engineering Management Branch  
Mitigation Directorate



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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 base (1-percent-annual-chance) flood 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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Craig S. Kennedy".

Craig S. Kennedy, CFM, Program Specialist  
Engineering Management Branch  
Mitigation Directorate



Federal Emergency Management Agency  
Washington, D.C. 20472

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

**COMMUNITY INFORMATION (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. Sally M. Ziolkowski  
Director, Mitigation Division  
Federal Emergency Management Agency, Region IX  
1111 Broadway Street, Suite 1200  
Oakland, CA 94607-4052  
(510) 627-7175

**STATUS OF THE COMMUNITY NFIP MAPS**

We are processing a revised FIRM for Pima County in our countywide format; therefore, we will not physically revise and republish the FIRM for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the countywide FIRM and FIS report, which present information from the effective FIRMs and FIS reports for your community and incorporated communities in Pima County, were submitted to your community for review on March 22, 2004. We will incorporate the modifications made by this LOMR into the countywide FIRM before it becomes effective.

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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Craig S. Kennedy, CFM, Program Specialist  
Engineering Management Branch  
Mitigation Directorate



Federal Emergency Management Agency  
Washington, D.C. 20472

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

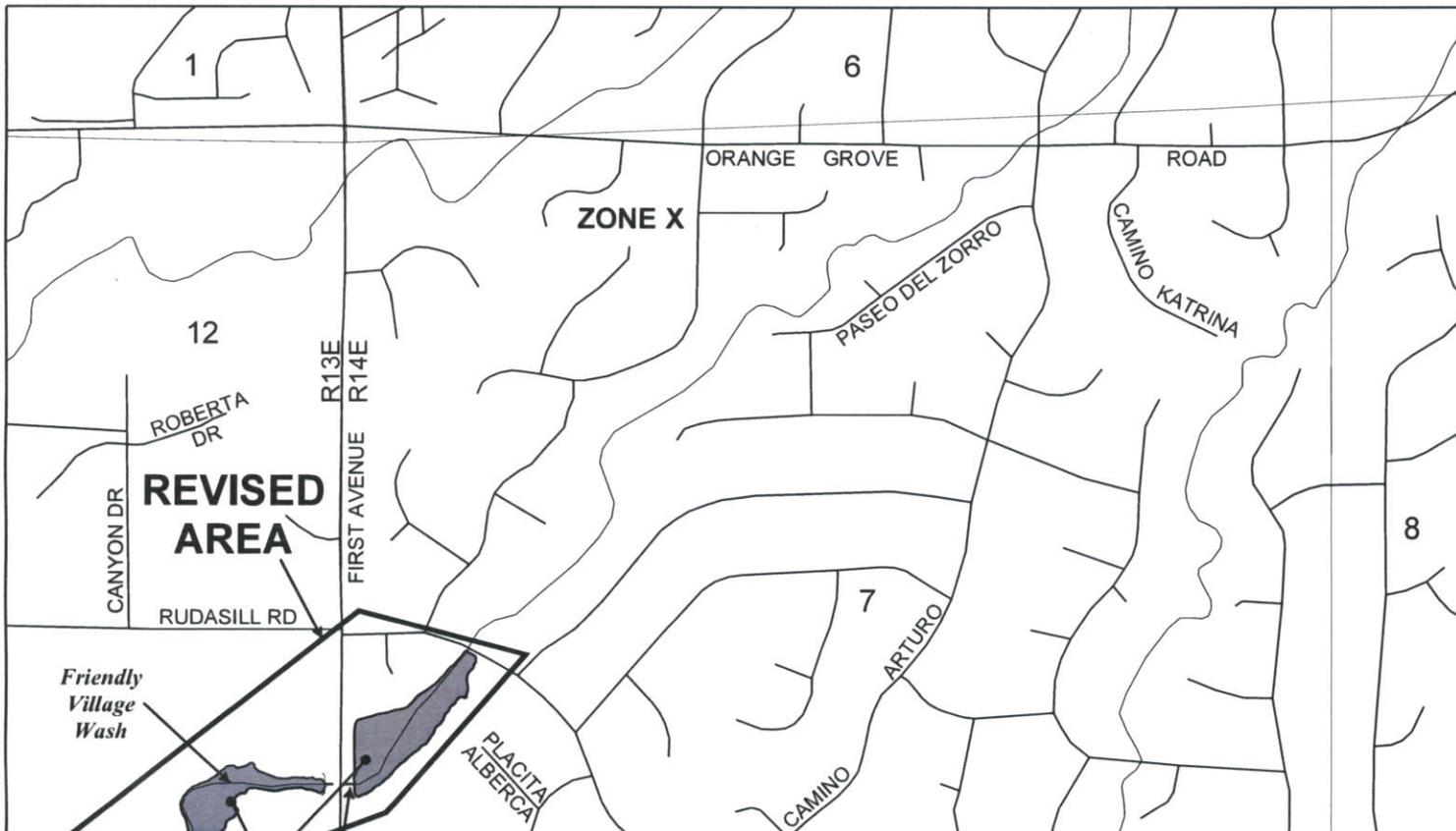
**PUBLIC NOTIFICATION OF REVISION**

This revision will become effective 30 days from the date of this letter. Any requests to review or alter this determination should be made within 30 days and must be based on scientific or technical data.

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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Handwritten signature of Craig S. Kennedy in black ink.

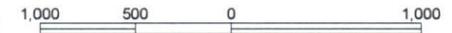
Craig S. Kennedy, CFM, Program Specialist  
Engineering Management Branch  
Mitigation Directorate



- Legend**
-  1% annual chance (100-Year) Floodplain
  -  1% annual chance (100-Year) Floodway
  -  0.2% annual chance (500-Year) Floodplain



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

PIMA COUNTY,  
ARIZONA  
AND INCORPORATED AREAS

**PANEL 1630 OF 4700**  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ORO VALLEY, TOWN OF	040109	1630	K
PIMA COUNTY, UNINCORPORATED AREAS	040073	1630	K

**REVISED TO REFLECT LOMR**  
**EFFECTIVE: October 23, 2008**

**MAP NUMBER**  
**04019C1630 K**

**EFFECTIVE DATE:**  
**FEBRUARY 8, 1999**



Federal Emergency Management Agency

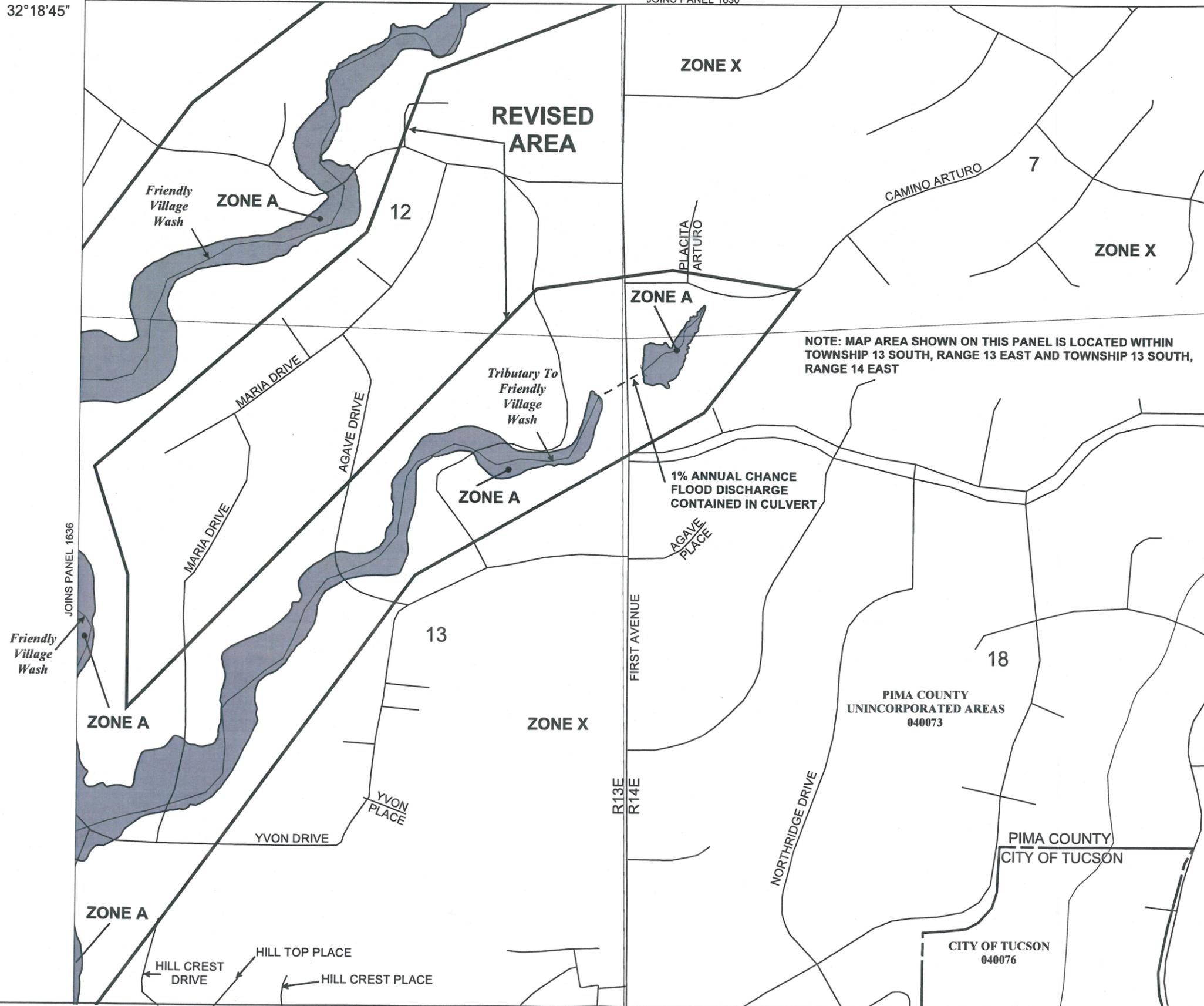
**ZONE A**  
1% ANNUAL CHANCE FLOOD DISCHARGE  
CONTAINED IN CULVERT

JOINS PANEL 1637

110°58'07"

32°18'45"

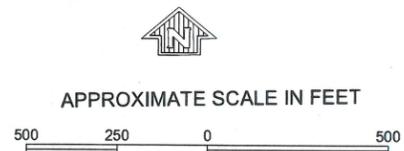
JOINS PANEL 1630



**Legend**

- 1% annual chance (100-Year) Floodplain
- 1% annual chance (100-Year) Floodway
- 0.2% annual chance (500-Year) Floodplain

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



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

PIMA COUNTY,  
ARIZONA  
AND INCORPORATED AREAS

PANEL 1637 OF 4700  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

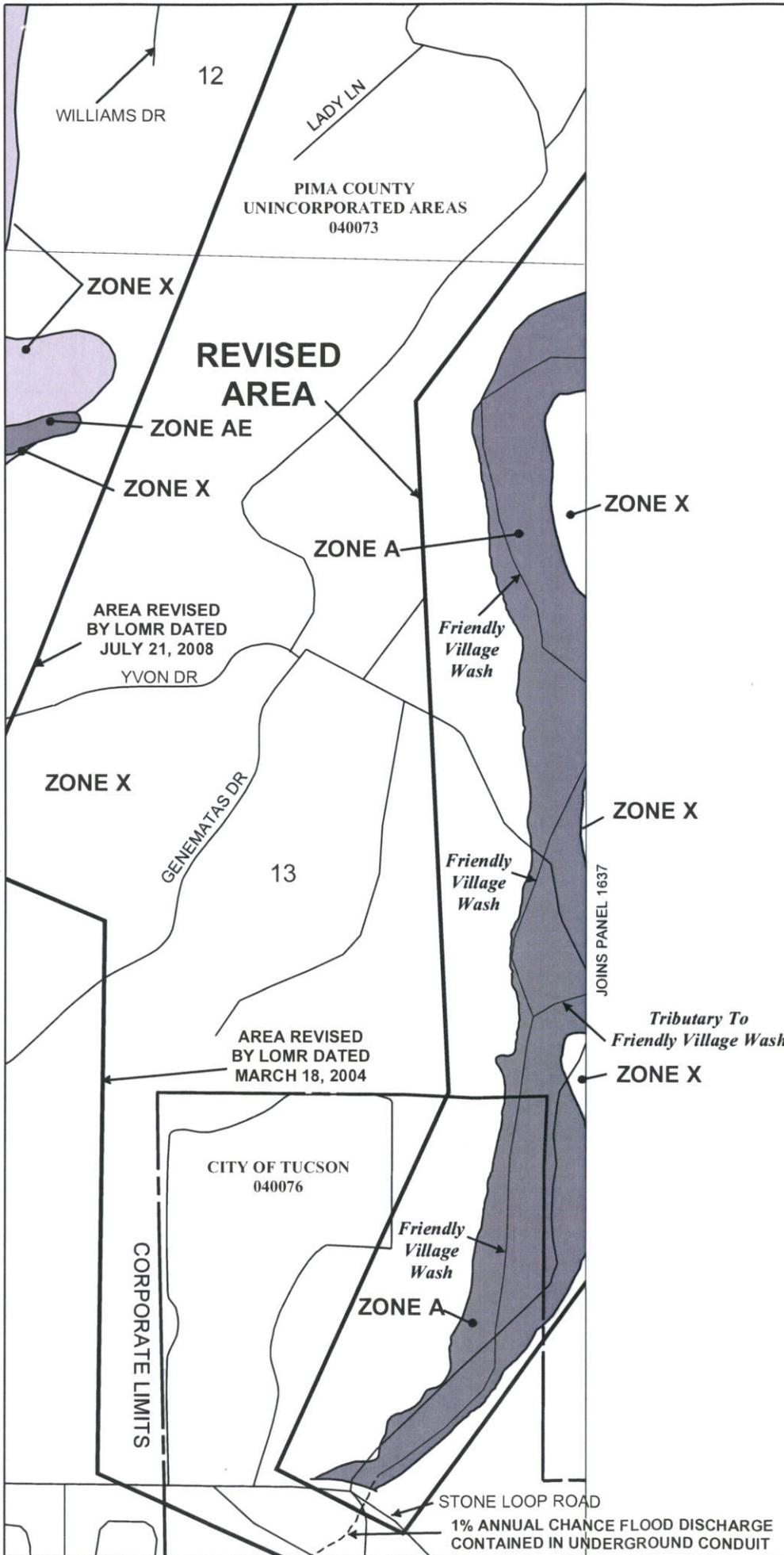
COMMUNITY	NUMBER	PANEL	SUFFIX
TUCSON, CITY OF	040076	1637	K
PIMA COUNTY, UNINCORPORATED AREAS	040073	1637	K

**REVISED TO REFLECT LOMR**  
**EFFECTIVE: October 23, 2008**

MAP NUMBER  
04019C1637 K

EFFECTIVE DATE:  
FEBRUARY 8, 1999

Federal Emergency Management Agency



Legend

-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  0.2% annual chance (500-Year) Floodplain



APPROXIMATE SCALE IN FEET

500 250 0 500

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

PIMA COUNTY,  
ARIZONA  
AND INCORPORATED AREAS

**PANEL 1636 OF 4700**  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
TUCSON, CITY OF	040076	1636	K
PIMA COUNTY UNINCORPORATED AREAS	040073	1630	K

**REVISED TO REFLECT LOMR**  
**EFFECTIVE: October 23, 2008**

MAP NUMBER  
04019C1636 K

EFFECTIVE DATE:  
FEBRUARY 8, 1999



Federal Emergency Management Agency