# Federal Emergency Management Agency

Washington, D.C. 20472

**May 31, 2012**

RECEIVED
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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

IN REPLY REFER TO:

| | |
|---|---|
| Case No.: | 12-09-1311P |
| Community Name: | Pima County, AZ |
| Community No.: | 040073 |
| Effective Date of This Revision: | **October 12, 2012** |

Dear Mr. Valadez:

The Flood Insurance Study report and Flood Insurance Rate Map for your community have 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/nfip.

Sincerely,

Siamak Esfandiary, Ph.D., P.E., Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

For: Luis Rodriguez, P.E., Chief
Engineering Management Branch
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: Ms. Suzanne Shields, P.E.
Director
Pima County Flood Control District

Mr. Jiankang Wang, P.E.
Project Manager
CMG Drainage Engineering, Inc.

# 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<br>Arizona<br>(Unincorporated Areas)<br><br>COMMUNITY NO.: 040073 | NO PROJECT | HYDRAULIC ANALYSIS<br>HYDROLOGIC ANALYSIS<br>NEW TOPOGRAPHIC DATA |
| IDENTIFIER | Black Wash Upstream of Valencia Road | APPROXIMATE LATITUDE & LONGITUDE: 32.125, -111.073<br>SOURCE: Precision Mapping Streets DATUM: NAD 83 | |

| ANNOTATED MAPPING ENCLOSURES | ANNOTATED STUDY ENCLOSURES |
|---|---|
| TYPE: FIRM* NO.: 04019C2265L DATE: June 16, 2011<br>TYPE: FIRM* NO.: 04019C2270L DATE: June 16, 2011<br>TYPE: FIRM* NO.: 04019C2855L DATE: June 16, 2011<br>TYPE: FIRM* NO.: 04019C2860L DATE: June 16, 2011 | DATE OF EFFECTIVE FLOOD INSURANCE STUDY: June 16, 2011<br>PROFILE(S): 298P<br>SUMMARY OF DISCHARGES TABLE: 6 |

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)

Black Wash - from approximately 3,500 feet upstream of Valencia Road to approximately 1,330 feet upstream of Camino De Oeste

Unnamed Tributary to Black Wash - from approximately 5,340 feet upstream of Valencia Road to approximately 2,490 feet downstream of South Mark Road

### SUMMARY OF REVISIONS

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|---|---|---|---|---|
| Black Wash | Zone AO | Zone AE | NONE | YES |
| | No BFEs* | BFEs* | YES | NONE |
| | Zone AO | Zone X (unshaded) | NONE | YES |
| Unnamed Tributary to Black Wash | Zone AO | Zone X (unshaded) | NONE | 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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/business/nfip.

Siamak Esfandiary, Ph.D., P.E., Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

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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.

### 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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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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. 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 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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Engineering Management Branch
Federal Insurance and Mitigation Administration

# Federal Emergency Management Agency

Washington, D.C. 20472

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

### PUBLIC NOTIFICATION OF REVISION

#### PUBLIC NOTIFICATION

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/Scripts/bfe_main.asp.

LOCAL NEWSPAPER Name: *The Daily Territorial*
Dates: June 7, 2012 and June 14, 2012

Within 90 days of the second publication in the local newspaper, a citizen 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 information 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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Engineering Management Branch
Federal Insurance and Mitigation Administration

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 |
|---|---|---|---|---|---|
| ANKLAM WASH | | | | | |
| At Silverbell Road | 3.0 | 1,360 | 3,450 | 4,500 | * |
| ARCADIA WASH | | | | | |
| At Speedway Boulevard | 2.26 | * | * | 2,450 | * |
| At Pima Street | 2.43 | * | * | 2,566 | * |
| At Grant Road | 2.53 | * | * | 2,617 | * |
| At Rosemont Boulevard | 1.94 | * | * | 2,587 | * |
| At Craycroft Road | 1.39 | * | * | 1,117 | * |
| ARROYO CHICO | | | | | |
| At Kino Boulevard | 5.6 | * | * | 3,605 | * |
| At Tucson Boulevard | 5.52 | * | * | 1,428 | * |
| At Randolph Way | 3.58 | * | * | 312 | * |
| At Alvernon Way | 0.7 | * | * | 986 | * |
| ATTERBURY WASH | | | | | |
| Upstream of Confluence With Pantano Wash | N/A | * | * | 4,200 | * |
| BIG WASH | | | | | |
| Upstream of Confluence with Canada Del Oro Wash | 110.0 | 5,700 | 13,500 | 18,300 | 31,000 |
| Upstream of Confluence with Honey Bee Wash | 89.9 | 5,200 | 12,400 | 16,900 | 28,000 |
| BLACK WASH | | | | | |
| At downstream limit of detailed study (intersection of Tucson-Ajo and Old Highways, south of Tucson-Ajo Highway) | 48.8 | * | * | 8,872 | * |
| South of Tucson-Ajo Highway, West of Vahalla Road | 26.4 | * | * | 4,904 | * |
| At the middle of Section 9, north of Valencia Road and east of Vahalla Road | 24.2 | * | * | 6,703 | * |
| South of Valencia Road, downstream of Camino Rancho Road | 22.5 | * | * | 4,962 | * |
| South of Tucson-Ajo Highway, East of Vahalla Road | 10.2 | * | * | 3,484 | * |
| South of Tucson-Ajo Highway East of Wade Road | 5.1 | * | * | 2,469 | * |
| At intersection of Drexel and Sheridan Roads | 0.8 | * | * | 1,319 | * |
| South of Aho Highway West of Camino Verde Road | 2.0 | * | * | 902 | * |

EVISED
)ATA

*Data not available

REVISED TO
REFLECT LOMR
EFFECTIVE: October 12, 2012

ELEVATION IN FEET (NAVD 88)

2580
2570
2560
2550
2540
2530
2520
2510
2500
2490

3500 4500 5500 6500 7500 8500 9500 10500 11500 12500 13500 14500 15500 16500

SOUTH MARK ROAD
LOS REALES ROAD
CAMINO DE OESTE
LIMIT OF DETAILED STUDY

A B C D E F G H I J K L

LEGEND
0.2% ANNUAL CHANCE FLOOD
1% ANNUAL CHANCE FLOOD
2% ANNUAL CHANCE FLOOD
10% ANNUAL CHANCE FLOOD
STREAM BED
CROSS SECTION LOCATION

STREAM DISTANCE IN FEET ABOVE VALENCIA ROAD

REVISED TO REFLECT LOMR EFFECTIVE: October 12, 2012

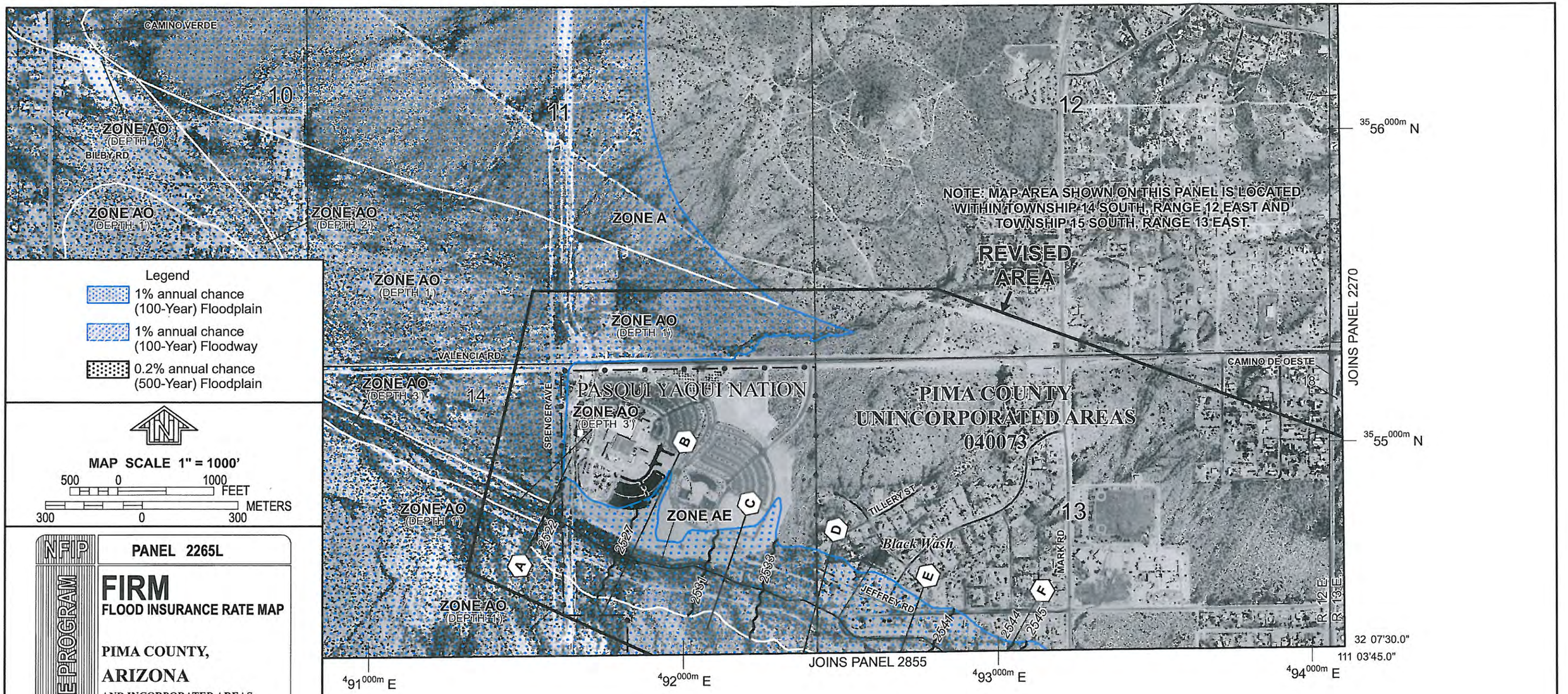
# FLOOD PROFILES

BLACK WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, CO
AND INCORPORATED AREAS

298P




Legend

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

MAP SCALE 1" = 1000'

500 0 1000 FEET

300 0 300 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 2265L**

# FIRM

## FLOOD INSURANCE RATE MAP

PIMA COUNTY,

ARIZONA

AND INCORPORATED AREAS

**PANEL 2265 OF 4750**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| PIMA COUNTY | 040073 | 2265 | L |

**REVISED TO REFLECT LOMR EFFECTIVE: October 12, 2012**

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04019C2265L**

**MAP REVISED JUNE 16, 2011**

Federal Emergency Management Agency

Legend

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

MAP SCALE 1" = 1000'

500 0 1000 FEET

300 0 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 2270L**

# FIRM
## FLOOD INSURANCE RATE MAP

**PIMA COUNTY,**

**ARIZONA**

**AND INCORPORATED AREAS**

**PANEL 2270 OF 4750**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| PIMA COUNTY | 040073 | 2270 | L |
| TUCSON, CITY OF | 040076 | 2270 | L |

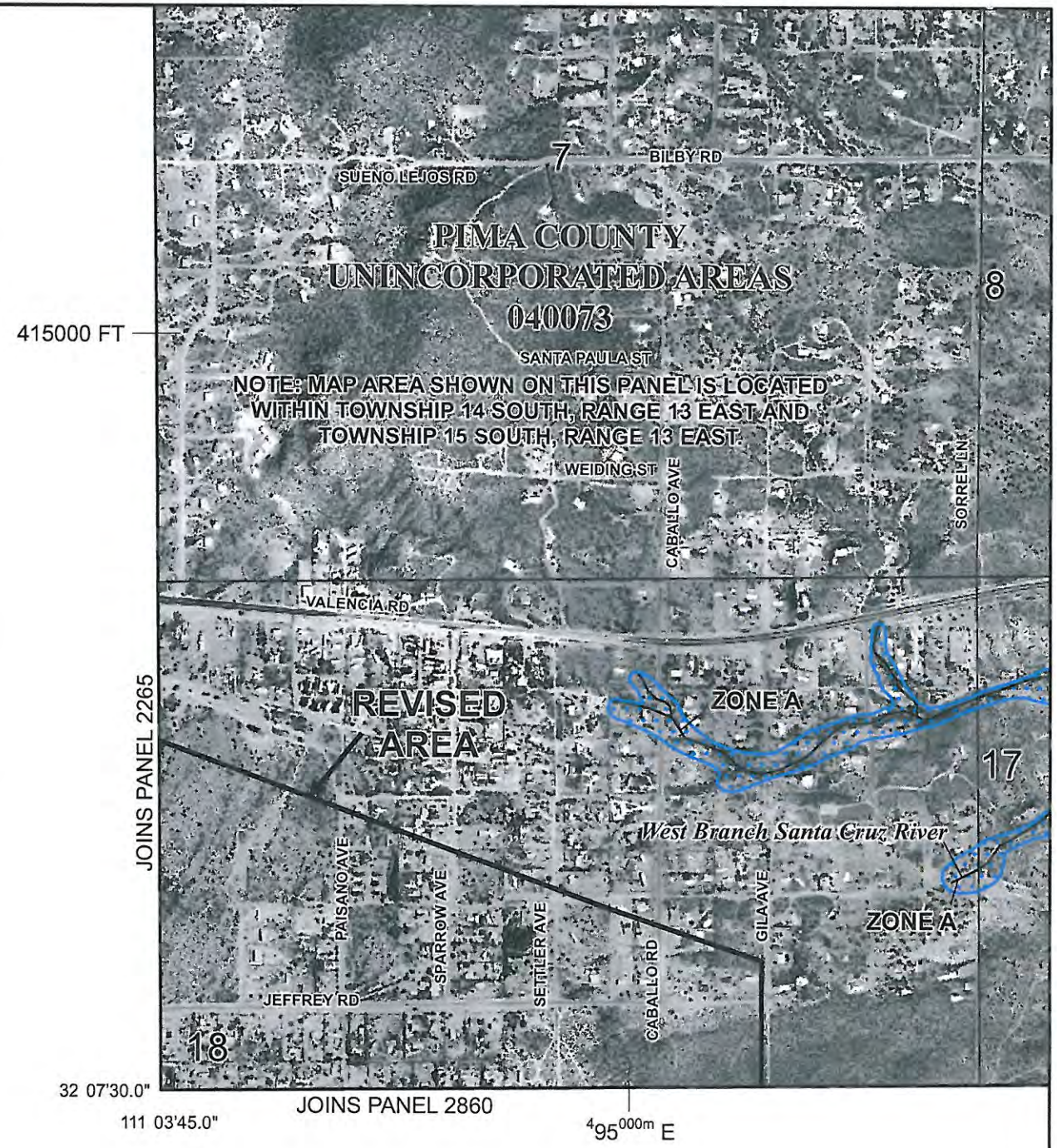
**REVISED TO REFLECT LOMR EFFECTIVE: October 12, 2012**

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04019C2270L**

**MAP REVISED JUNE 16, 2011**

Federal Emergency Management Agency



Legend

1% annual chance (100-Year) Floodplain

1% annual chance (100-Year) Floodway

0.2% annual chance (500-Year) Floodplain

MAP SCALE 1" = 1000'

500 0 1000 FEET

300 0 300 METERS

NFIP

PANEL 2855L

# FIRM

## FLOOD INSURANCE RATE MAP

PIMA COUNTY,

ARIZONA

AND INCORPORATED AREAS

**PANEL 2855 OF 4750**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| PIMA COUNTY | 040073 | 2855 | L |

**REVISED TO REFLECT LOMR EFFECTIVE: October 12, 2012**

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04019C2855L**

**MAP REVISED JUNE 16, 2011**

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

960000 FT

JOINS PANEL 2265

111 03'45.0"

32 07'30.0"

$^{35}54^{000m}$ N

$^{35}53^{000m}$ N

JOINS PANEL 2860

ZONE AO (DEPTH 1')

ZONE AO (DEPTH 2')

ZONE AE

ZONE A

REVISED AREA

PIMA COUNTY UNINCORPORATED AREAS 040073

RESERVATION BOUNDARY

PASQUI YAQUI NATION

PIMA COUNTY UNINCORPORATED AREAS 040073

Black Wash

MARK RD

ELVADO RD

LOS REALES RD

IGNACIO M BAUMEA

CAMINO DE OESTE

CAMINO COCOIM

CAMINO BENEM

CAMINO POTAM

CALLE TORIM

VIA SEVOI

R 12E

R 13E

18

19

13

14

23

24

2544

2545

2546

2547

2552

2557

2560

2563

2564

D

E

F

G

H

I

J

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 15 SOUTH, RANGE 12 EAST AND TOWNSHIP 16 SOUTH, RANGE 13 EAST.

Legend

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

MAP SCALE 1" = 1000'

500 0 1000 FEET

300 0 300 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

**PANEL 2860L**

# FIRM

## FLOOD INSURANCE RATE MAP

**PIMA COUNTY,**

**ARIZONA**

**AND INCORPORATED AREAS**

**PANEL 2860 OF 4750**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

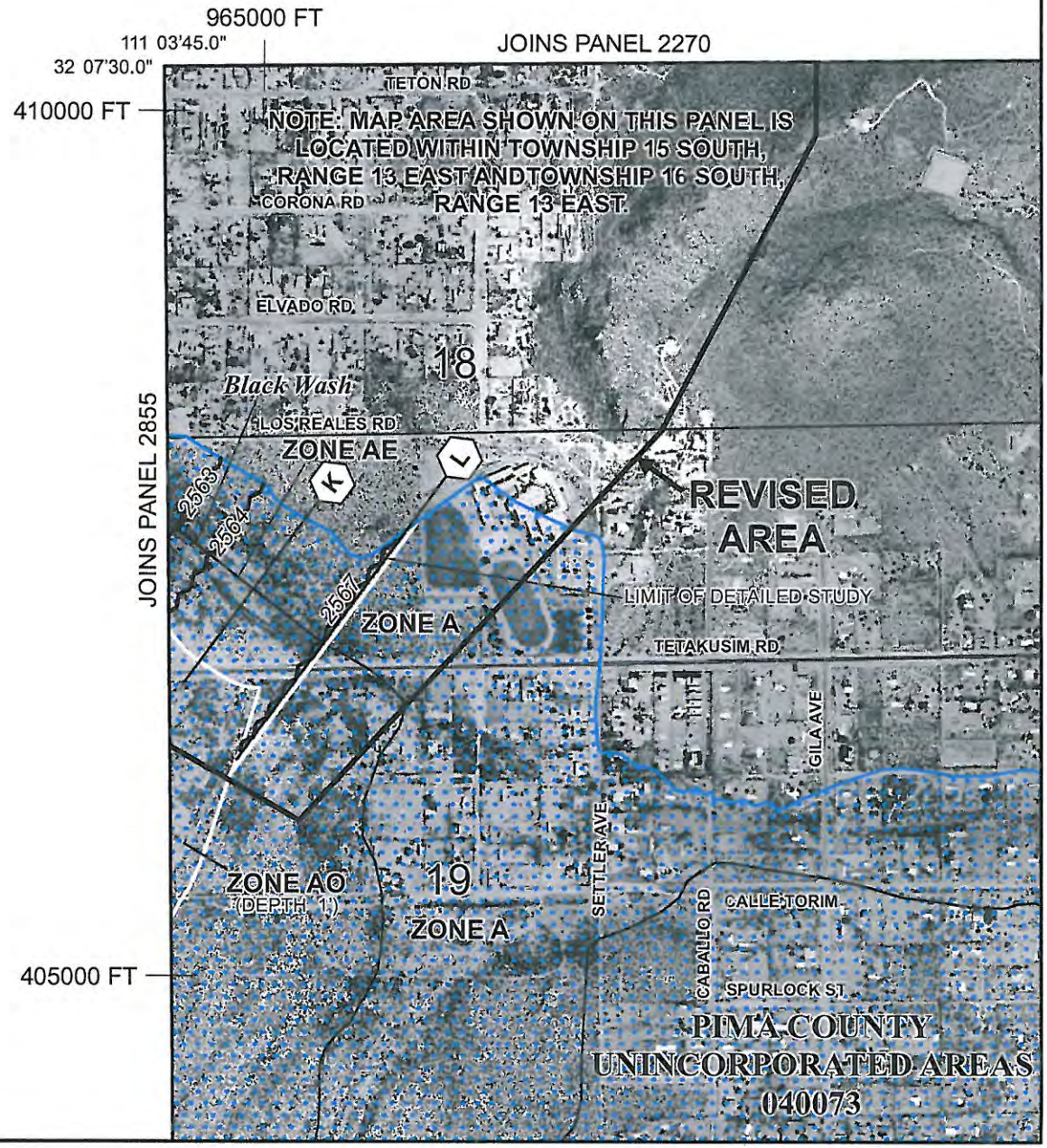
CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|---|---|---|---|
| PIMA COUNTY | 040073 | 2860 | L |
| TUCSON, CITY OF | 040076 | 2860 | L |

**REVISED TO REFLECT LOMR EFFECTIVE: October 12, 2012**

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER 04019C2860L**

**MAP REVISED JUNE 16, 2011**

Federal Emergency Management Agency