



Federal Emergency Management Agency

Washington, D.C. 20472

May 24, 2016

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Sharon Bronson
Chair, Board of Supervisors
Pima County
130 West Congress Street, 11th Floor
Tucson, AZ 85701

IN REPLY REFER TO:

Case No.: 16-09-1464P
Follows Conditional
Case No.: 13-09-1352R
Community Name: Pima County, AZ
Community No.: 040073
Effective Date of
This Revision: **October 6, 2016**

Dear Ms. Bronson:

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 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 Services 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 Regional Flood Control District

Mr. Patrick W. Marum, P.E.
Principal
Marum & Associates Engineering, LLC

Mr. Terry Hendricks
Chief Hydrologist
Pima County Regional Flood Control District

Ms. Stefanie Thrush, P.E.
Assistant Project Manager
Marum & Associates Engineering, LLC

Mr. John Ward P.E.
Manager
KB Homes Phoenix, Inc.

Follows Conditional Case No.: 13-09-1352R



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 CULVERT FILL | HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA |
| | COMMUNITY NO.: 040073 | | |
| IDENTIFIER | Rancho Valencia II LOMR | APPROXIMATE LATITUDE & LONGITUDE: 32.129, -110.883 SOURCE: USGS QUADRANGLE DATUM: NAD 83 | |
| ANNOTATED MAPPING ENCLOSURES | | ANNOTATED STUDY ENCLOSURES | |
| TYPE: FIRM* NO.: 04019C2295L DATE: June 16, 2011 TYPE: FIRM* NO.: 04019C2900L DATE: June 16, 2011 | | DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 28, 2012 NEW PROFILE(S): 281P-282P SUMMARY OF DISCHARGES TABLE: TABLE 6 | |

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

Swan Road Zone A - from approximately 3,500 feet upstream of Swan Road to approximately 2,060 feet upstream of Swan Road.

SUMMARY OF REVISIONS

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|------------------|--------------------|-------------------|-----------|-----------|
| Swan Road Zone A | Zone A | Zone AE | YES | YES |
| | No BFEs* | BFEs | YES | NONE |
| | Zone X (unshaded) | Zone X (unshaded) | 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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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



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Washington, D.C. 20472

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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Swan Road Zone A (referred to hereafter as Swan Road Zone A Wash A) - from approximately 1,340 feet upstream to approximately 200 feet upstream of the confluence with Swan Road Zone A.

SUMMARY OF REVISIONS

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|---|--------------------|-------------------|-----------|-----------|
| Swan Road Zone A (referred to hereafter as Swan Road Zone A Wash A) | Zone A | Zone AE | YES | YES |
| | No BFEs* | BFEs | YES | NONE |
| | Zone X (unshaded) | Zone X (unshaded) | YES | YES |

* BFEs - Base Flood Elevations

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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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 revision has met our criteria for removing an area from the 1-percent-annual-chance floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base (1-percent-annual-chance) Flood Elevation.

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, 847 South Pickett Street, Alexandria, VA 22304-4605. 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 "Rick F. Sacbbit".

Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
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:

Mr. Jeffrey D. Lusk
Director, Mitigation Division
Federal Emergency Management Agency, Region IX
1111 Broadway, 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 Information eXchange 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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Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services 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

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.

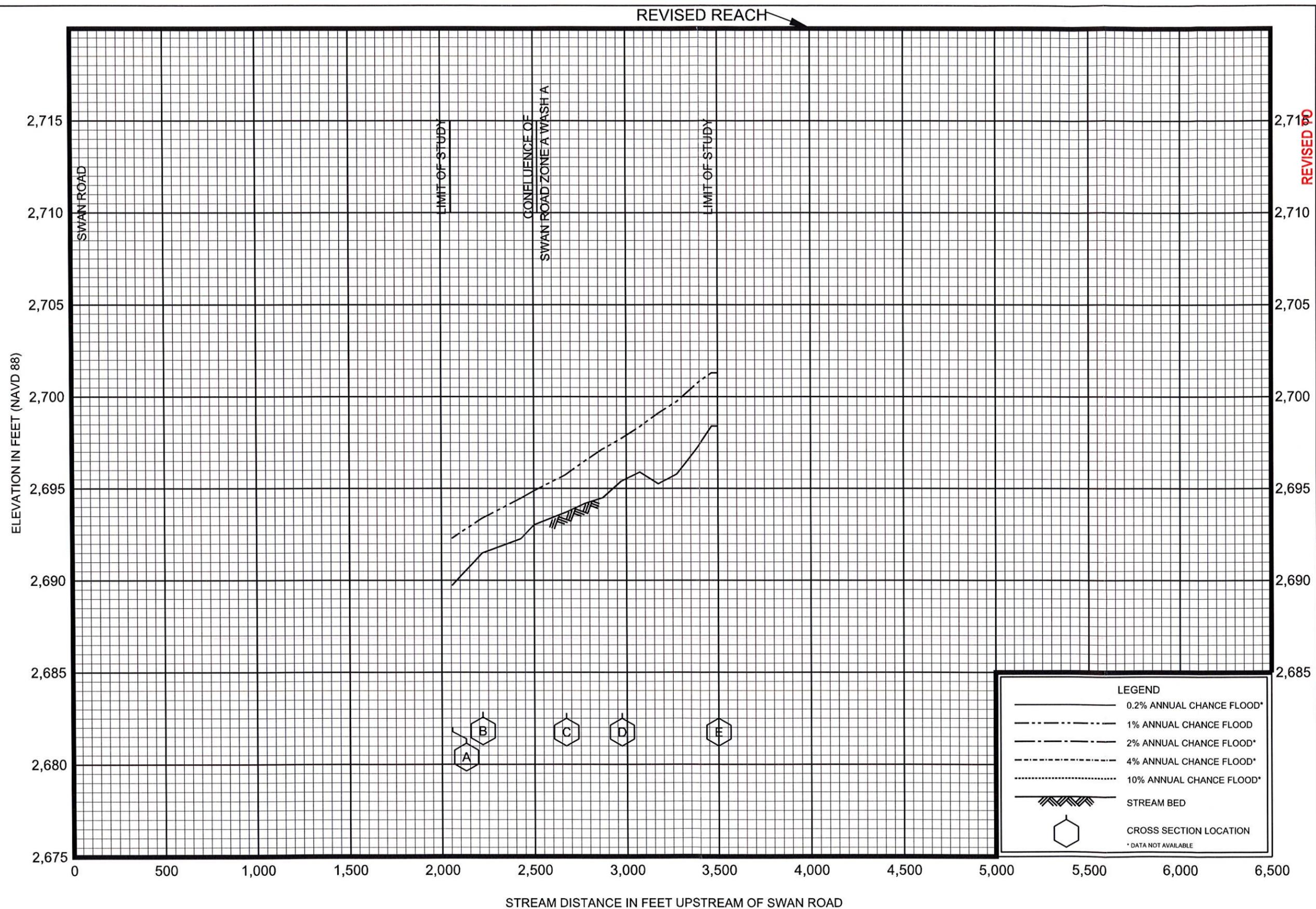
LOCAL NEWSPAPER Name: *Arizona Daily Star*
 Dates: June 1, 2016 and June 8, 2016

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 Information eXchange 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>.

A handwritten signature in black ink, appearing to read "Rick Sacbbit".

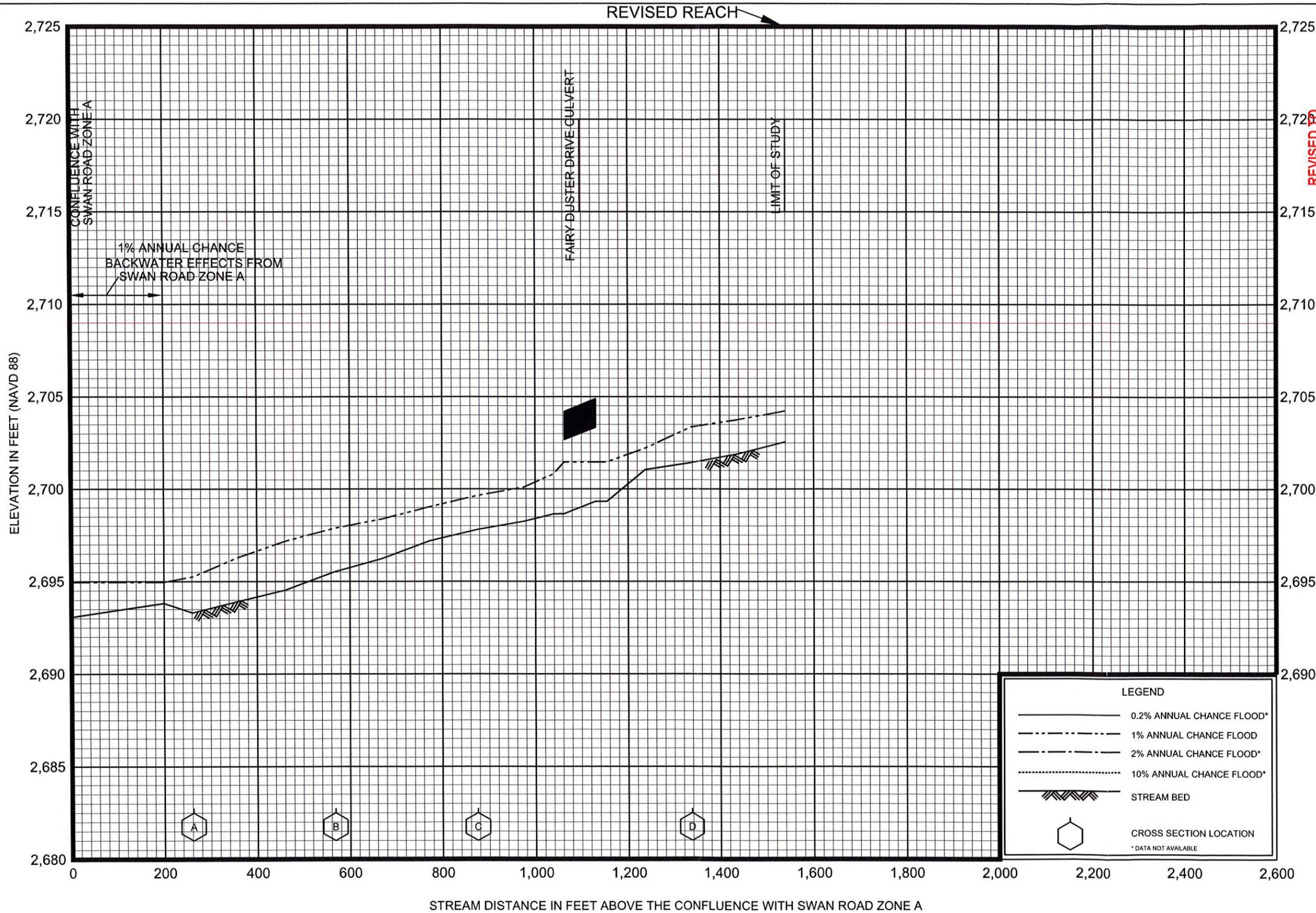
Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



REVISÉD 90
REFLECT LOMR
FLOOD PROFILES
EFFECTIVE: October 6, 2016

SWAN ROAD ZONE A

FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
 AND INCORPORATED AREAS



REVISED P
REFLECT LOMR
EFFECTIVE: October 6, 2016

FLOOD PROFILES
SWAN ROAD ZONE A WASH A

FEDERAL EMERGENCY MANAGEMENT AGENCY
PIMA COUNTY, AZ
 AND INCORPORATED AREAS

- ROAD KEY**
1. CONEFLOWER DR
 2. MEXICAN HAT DR
 3. HIDDEN FLOWER WAY
 4. BUTTERWEED DR
 5. SQUAWFOOT PL
 6. YELLOW RATTLE CT
 7. TANGLE BUSH CT
 8. YELLOW STAR DR
 9. TWINBERRY DR
 10. THIMBLEBERRY RD
 11. TACKWEED WAY
 12. SALT CEDAR RD
 13. KITTENTAILS DR
 14. LADY'S THUMB LN
 15. BLUE EYES DR
 16. FILAREE PL
 17. CATCHFLY CT
 18. SWEETBUSH AVE

Without Base Flood Elevation (BFE)
Zone A, AE, A99

With BFE or Depth Zone AE, AH, VE, AR

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 Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee See Notes. Zone X

SPECIAL FLOOD HAZARD AREAS

OTHER AREAS OF FLOOD HAZARD

SCALE

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

1 inch = 1,000 feet

0 500 1,000 Feet

0 150 300 Meters

1:12,000

2,000

600

FEMA

NATIONAL FLOOD INSURANCE PROGRAM

FLOODED INSURANCE RATE MAP

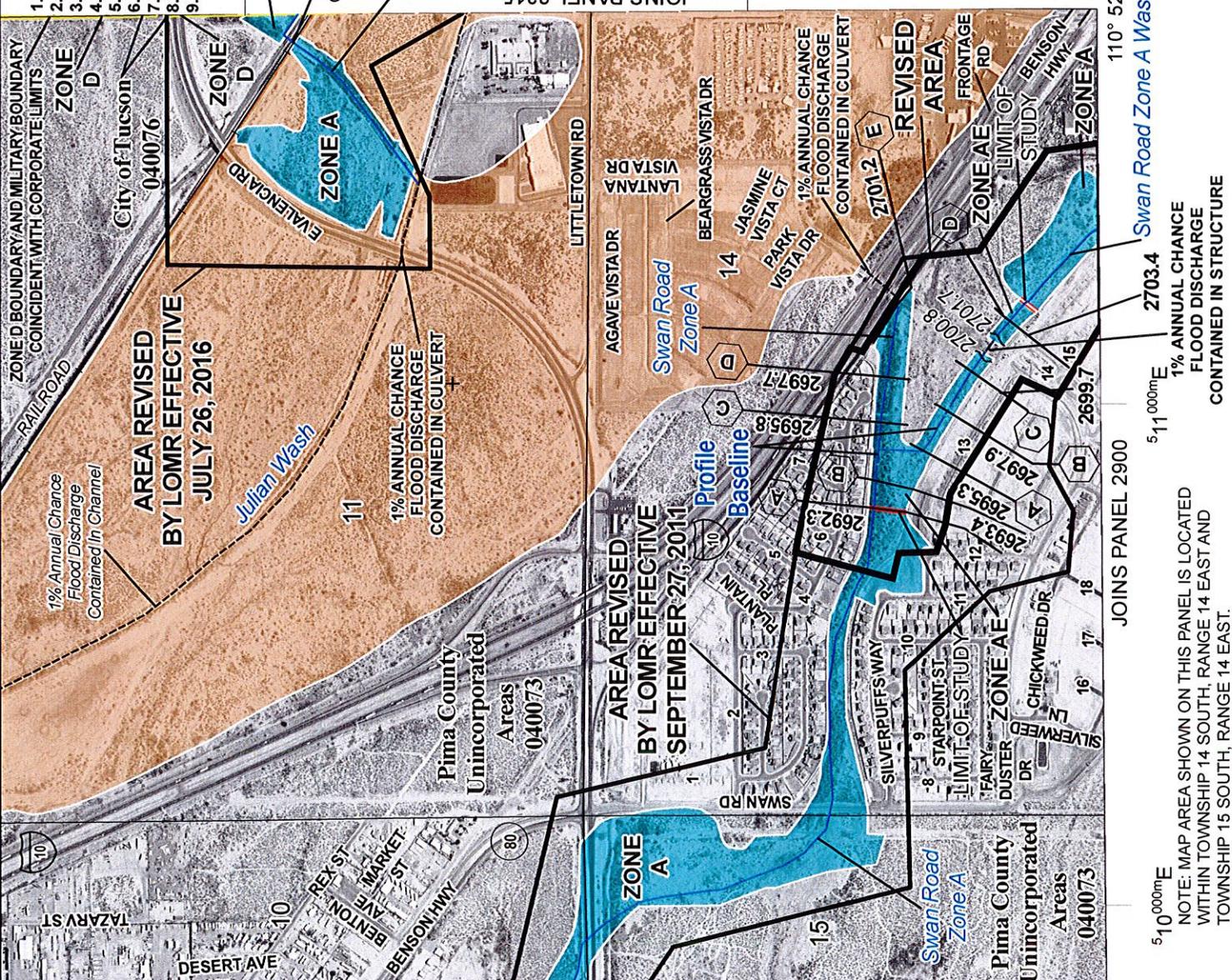
PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS

PANEL 2295 OF 4750

Panel Contains:
COMMUNITY PIMA COUNTY TUCSON, CITY OF
NUMBER 040073
SUFFIX 2295

REVISOR TO REFLECT LOMR EFFECTIVE: October 6, 2016

VERSION NUMBER 1.1.1.0
MAP NUMBER 04019C2295L
EFFECTIVE DATE JUNE 16, 2011



510,000mE

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

**Pima County
Unincorporated
Areas**

040073

Swan Road Zone A Wash A

1020000 FT

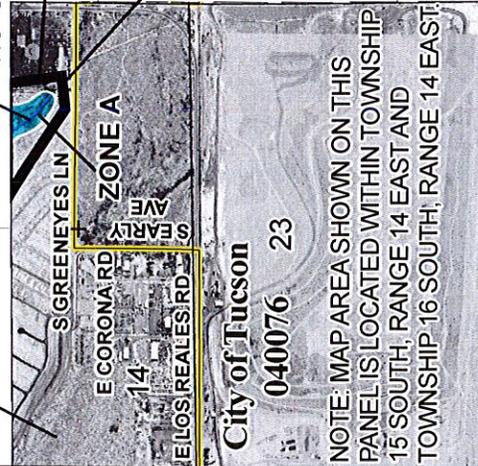
110° 52' 30"

32° 07' 30"

35°54'000mN

**REVISED
AREA**

35°53'000mN



NOTE: MAP AREA SHOWN ON THIS
PANEL IS LOCATED WITHIN TOWNSHIP
15 SOUTH, RANGE 14 EAST AND
TOWNSHIP 16 SOUTH, RANGE 14 EAST.

**AREA REVISED
BY LOMR EFFECTIVE
SEPTEMBER 27, 2011**

| | | |
|---|------------------------------------|---|
|  | SPECIAL FLOOD HAZARD AREAS | Without Base Flood Elevation (BFE) <i>Zone A, V, AG5</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> |
|  | OTHER AREAS OF FLOOD HAZARD | Area with Reduced Flood Risk due to Levee See Notes. <i>Zone X</i> |

SCALE



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

FEMA  **National Flood Insurance Program**

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS

PANEL **2900** OF **4750**

Panel Contains:
COMMUNITY PIMA COUNTY TUCSON, CITY OF
NUMBER 040073
SUFFIX 040076

VERSION NUMBER **1.1.1.0**
MAP NUMBER **04019C2900L**
EFFECTIVE DATE **JUNE 16, 2011**

**REVISED TO
REFLECT LOMR
EFFECTIVE: October 6, 2016**