# Federal Emergency Management Agency

Washington, D.C. 20472

**October 27, 2016**

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Ed Honea
Mayor, Town of Marana
11555 West Civic Center Drive
Marana, AZ 85653

IN REPLY REFER TO:
Case No.: 16-09-1535P
Community Name: Town of Marana, AZ
Community No.: 040118
Effective Date of
This Revision: **March 14, 2017**

Dear Mayor Honea:

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 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

cc: Mr. Keith Brann, P.E., CFM
Town Engineer
Town of Marana

Mr. Kumar Raut, P.E., CFM
Civil Engineer, Engineering Department
Town of Marana

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

Mr. Terry Hendricks, CFM
Chief Hydrologist
Planning and Development Division
Pima County Regional Flood Control District

Mr. Clinton M. Glass, P.E.
Project Engineer
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 | Town of Marana<br>Pima County<br>Arizona | CHANNELIZATION<br>CULVERT<br>FILL | HYDRAULIC ANALYSIS<br>UPDATED TOPOGRAPHIC DATA |
| | COMMUNITY NO.: 040118 | | |
| IDENTIFIER | Cortaro Commercial LOMR | APPROXIMATE LATITUDE & LONGITUDE: 32.360, -111.089<br>SOURCE: USGS QUADRANGLE DATUM: NAD 83 | |

| ANNOTATED MAPPING ENCLOSURES | ANNOTATED STUDY ENCLOSURES |
|---|---|
| TYPE: FIRM* NO.: 04019C1655L DATE: June 16, 2011 | NO REVISION TO THE FLOOD INSURANCE STUDY REPORT |

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)**

Unnamed Wash – an area extending from approximately 1,190 feet northwest of the intersection of Cortaro Farms Road and Union Pacific Railroad to just west of the intersection of Cortaro Farms Road and Hartman Lane

**SUMMARY OF REVISIONS**

| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases |
|---|---|---|---|---|
| Unnamed Wash | BFEs* | BFEs | NONE | YES |
| | Zone AH | Zone AH | YES | YES |
| | Zone AO | Zone AO | YES | YES |
| | Zone X (shaded) | Zone X (shaded) | 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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# 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 flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards 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, 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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# LETTER OF MAP REVISION
# DETERMINATION DOCUMENT (CONTINUED)

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.

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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# 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: November 7, 2016 and November 14, 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.

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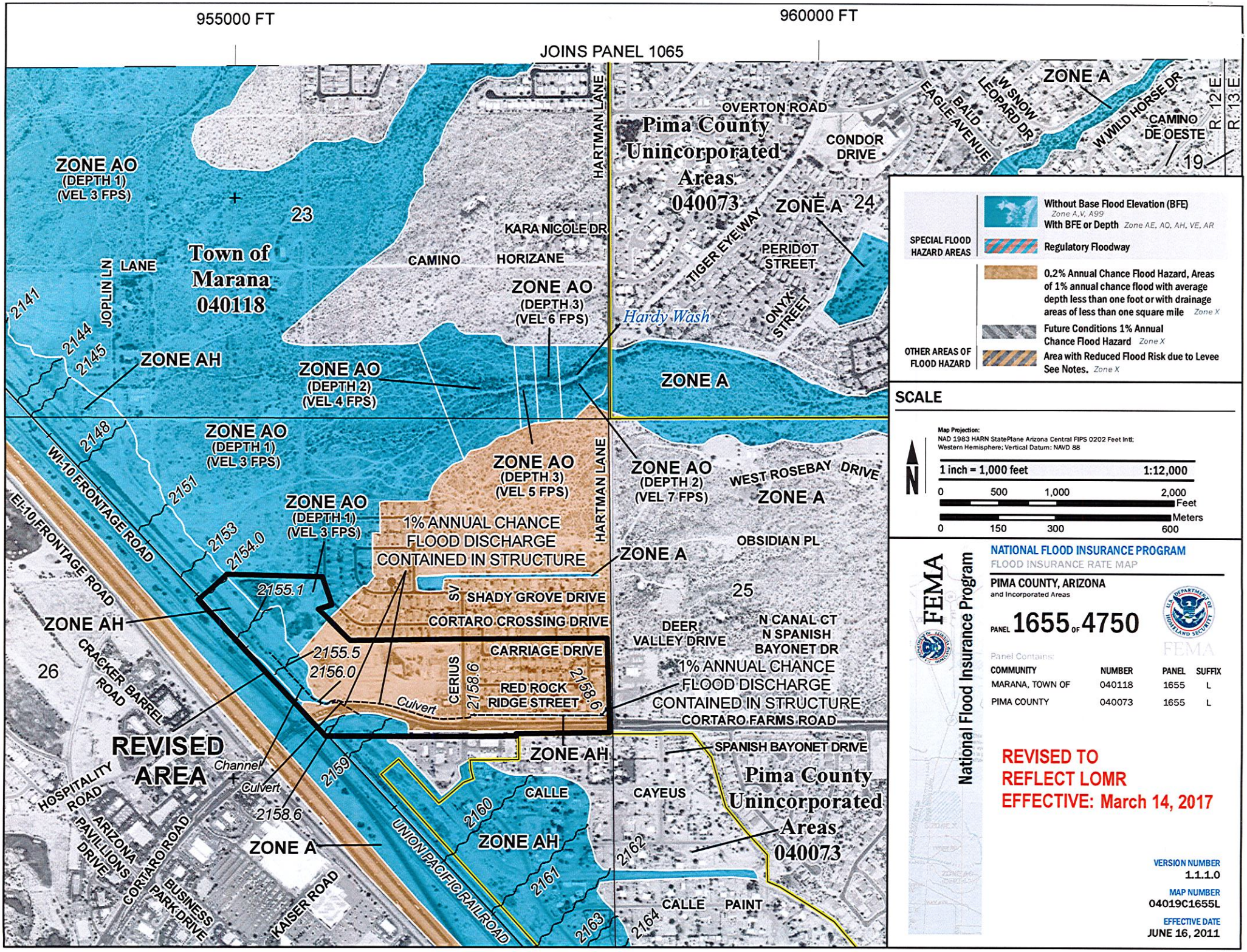
955000 FT
960000 FT
JOINS PANEL 1065
ZONE AO
(DEPTH 1)
(VEL 3 FPS)
23
Town of
Marana
040118
LANE
JOPLIN LN
2141
2144
2145
ZONE AH
ZONE AO
(DEPTH 2)
(VEL 4 FPS)
KARA NICOLE DR
CAMINO
HORIZANE
ZONE AO
(DEPTH 3)
(VEL 6 FPS)
HARTMAN LANE
Hardy Wash
Pima County
Unincorporated
Areas
040073
OVERTON ROAD
CONDOR
DRIVE
EAGLE AVENUE
BALD
W SNOW
LEOPARD DR
ZONE A
W WILD HORSE DR
CAMINO
DE OESTE
19
R. 12 E
R. 13 E
ZONE A
24
TIGER EYE WAY
PERIDOT
STREET
ONYX
STREET
ZONE A
2148
ZONE AO
(DEPTH 1)
(VEL 3 FPS)
WI-10 FRONTAGE ROAD
EI-10 FRONTAGE ROAD
2151
2153
2154.0
ZONE AO
(DEPTH 1)
(VEL 3 FPS)
ZONE AO
(DEPTH 3)
(VEL 5 FPS)
1% ANNUAL CHANCE
FLOOD DISCHARGE
CONTAINED IN STRUCTURE
ZONE AO
(DEPTH 2)
(VEL 7 FPS)
WEST ROSEBAY DRIVE
ZONE A
OBSIDIAN PL
ZONE A
2155.1
SHADY GROVE DRIVE
CORTARO CROSSING DRIVE
ZONE AH
CRACKER BARREL
ROAD
26
2155.5
2156.0
CARRIAGE DRIVE
CERIUS
2158.6
RED ROCK
RIDGE STREET
2158.9
Culvert
25
DEER
VALLEY DRIVE
N CANAL CT
N SPANISH
BAYONET DR
1% ANNUAL CHANCE
FLOOD DISCHARGE
CONTAINED IN STRUCTURE
CORTARO FARMS ROAD
REVISED
AREA
Channel
Culvert
2158.6
2159
ZONE AH
SPANISH BAYONET DRIVE
HOSPITALITY
ROAD
ARIZONA
PAVILLIONS
DRIVE
CORTARO ROAD
BUSINESS
PARK DRIVE
ZONE A
KAISER ROAD
UNION PACIFIC RAILROAD
CALLE
2160
ZONE AH
CAYEUS
Pima County
Unincorporated
Areas
040073
2162
2161
2163
2164
CALLE
PAINT
SPECIAL FLOOD HAZARD AREAS
Without Base Flood Elevation (BFE) Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD
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
SCALE
N
Map Projection:
NAD 1983 HARN StatePlane Arizona Central FIPS 0202 Feet Intl;
Western Hemisphere; Vertical Datum: NAVD 88
1 inch = 1,000 feet
1:12,000
0
500
1,000
2,000
Feet
0
150
300
600
Meters
FEMA
National Flood Insurance Program
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
PIMA COUNTY, ARIZONA
and Incorporated Areas
PANEL 1655 OF 4750
Panel Contains:
COMMUNITY NUMBER PANEL SUFFIX
MARANA, TOWN OF 040118 1655 L
PIMA COUNTY 040073 1655 L
REVISED TO
REFLECT LOMR
EFFECTIVE: March 14, 2017
VERSION NUMBER
1.1.1.0
MAP NUMBER
04019C1655L
EFFECTIVE DATE
JUNE 16, 2011