NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevation (BFEs) and/or floodways have been determined, users are encouraged to consider Floodway Data and/or Summary of Stillwater Elevation tables contained within the Flood Insurance Study (FIS) report that accompanie tables contained within the Flood Insurance Study (FIIS) report that accompanies the FIRM. Users should be aware that BFEs above on the FIRM represent the FIRM and the FIRM represent the FIRM of the FIRM represent the FIRM of the FIRM represents the FIRM for purposes of construction and for food levelant in formation. Accordingly, flood elevation information. Accordingly, flood elevation labal presented in the FIRM for purposes of construction and for foodplan management.

Constat Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FRM should be aware that costatel flood elevations are elso provided in the Summary of Sillwater Elevations table in the Flood Insurance Study report for this pristaction. Elevations shown the Summary of Sillwater Elevations take should be used for construction and/or floodplain amanagement purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydrautic considerations with regard to requirements of the National Flood histance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this

The projection used in the preparation of this map was Alazona Central State Plane zone FIPS-2004 C0202, International Feet. The horizontal datum was considered to the project of FIRMs for adjacent justification may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRMs.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground or 1900. I nese those sevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1989, visit the National Geodetic Survey website at https://www.ngs.nosa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #92020 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from multiple sources. Base map imagery for eastern Pima County was provided in digital forms by the Pima Association of Covernments. These data were developed at 1-food Ground Sample Distance (GSD) from color serial photography flowin in 2002. Base map imagery for weether Pima County was derived from USSS largery available for the State of Altona and produced at a scale of 112,000 from photography dated 2008 and 2007.

This map may reflect more detailed and up-to-date stream channel configurations than those shown on the previous FRM for this justicidion. The floodpains and floodpains that were trainered from the previous FRM may have been adjusted to conform to these new stream channel configurations. As a result, the Frood Profiles and Floodpain Class takes in the Friod Instruance Sough Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this may.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this may was published, map users should contact appropriate community officials to verify current corporate limit locations.

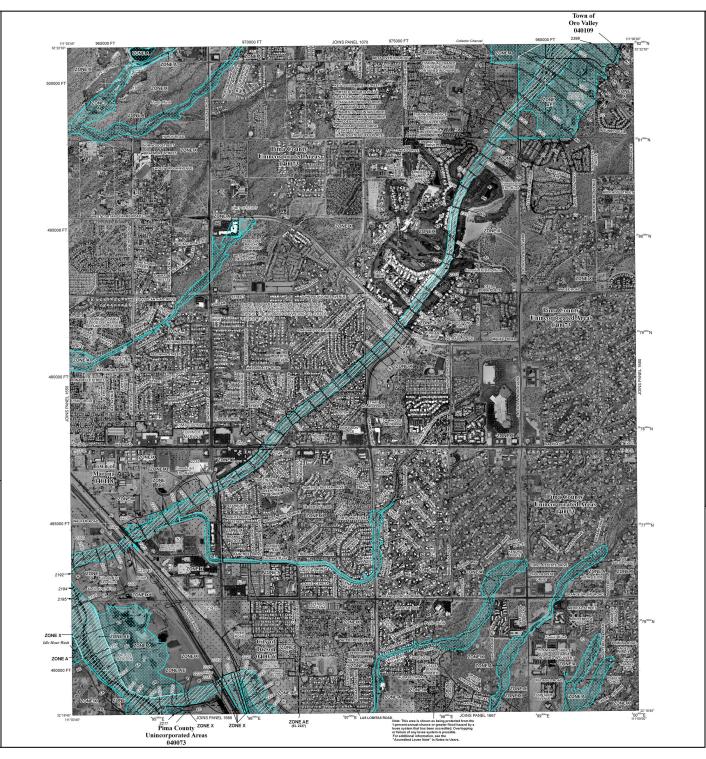
Please refer to the separately printed Map Index for an overview map of the

community is located.

For information on available products associated with this FIRM, visit the Map Service Center (MSC) website at http://msrctema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood insurance Program in general, please call the FEMA Map Information exchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at https://www.fema.gov/business/infg

Accredited Levee Notes to Users: Check with your local community to obtain more information, such as the estimated level of protection provided (which may more information, such as the estimated levis of protection provided (which may second the 1-percent-annual-chance-level) and Emergency Action Plan, on the lever system(s) show an providing protection for areas on the panel. To mitigate consider float of the providing protection for areas on the panel. To mitigate consider float of insurance and float/point or other protective measures. For more information on float insurance, interested parties should visit the FEMA Website at http://www.fema.pow/busness/frincibnes.utm.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual fixed (100-year flood), also incern as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Heard fixes is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Heard include Zones A, AE, AH, AO, RR, AP9, V, and VE. The Base Flood Elevation is the water-surface elevation of the Very Area of the Control of the Very Area of the Control of the Very Area of the

ZONE A No Base Flood Benations determined Base Flood Elevations determined.

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Bevations ZONE A99

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined. Coastal flood zone with velocity hazard (wave action); Base Flood

FLOODWAY AREAS IN ZONE AE

the channel of a stream plus any adjacent floodplain areas that must be kept free it so that the 1% annual chance flood can be carried without substantial increases

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. ZONE X

OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain Areas in which flood hazards are undetermined, but possible.

COASTAL RADDIED DESCRIPCES SYSTEM (CRDS) ADEAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and CPAs are normally located within or adjacent to Special Flood Hazard Areas 1% annual chance floodplain boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Limit of Moderate Wave Action Base Flood Elevation line and value; elevation in feet*

~~~ 513 ~~~ (EL 987)

feet\* Vertical Datum of 1988 Referenced to the North (A)----—(A)

(2)----(2) 87°07'45", 32'22'30"

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere 1000-meter Universal Transverse Mercator grid values, zone 2976 HINNN

5000-foot grid values: Arizona State Plane coordinate system, Central zone (FIPSZONE 0202), Transverse Mercator projection 600000 FT

DX5510 × • M1.5 River Mile

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP February 8, 1999

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

- to update corporate limits, to change Base Flood Elevations and Special Flood
to update map format, to add roads and road names, and to incorporate previous
of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

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MAP SCALE 1" = 1000' METERS

**FIRM** 

FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1660 OF 4750

(SEE MAP INDEX FOR FIRM PANEL LAYOUT) CONTAINS NUMBER PANEL SUFFIX

COMMUNITY MARANA, TOWN OF ORO VALLEY, TOWN OF PIMA COUNTY TUCSON, CITY OF 040118 040109 040073 040076 1660 1660 1660 1660

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MAP NUMBER 04019016601 MAP REVISED JUNE 16, 2011

Federal Emergency Management Agency