Federal Emergency Management Agency

Washington, D.C. 20472

April 27, 2010

RECEIVED BY RFCD

MAY 05 2010

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

IN REPLY REFER TO:
Case No.: 09-09-2406P
Community Name: Pima County, AZ
Community No.: 040073
Effective Date of
This Revision: **September 13, 2010**

Dear Mr. Elías:

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,

Beth A Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Mitigation Directorate

For: Kevin C. Long, Acting Chief
Engineering Management Branch
Mitigation Directorate

List of Enclosures:

Letter of Map Revision Determination Document
Annotated Flood Insurance Rate Map
Annotated Flood Insurance Study Report

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

Mr. Brian Cosson, CFM
NFIP State Manager
Arizona Department of Water Resources
Flood Mitigation Section

Mr. Robert L. Shand
JE Fuller/Hydrology & Geomorphology, 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 Arizona (Unincorporated Areas)	NO PROJECT	HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 040073		
IDENTIFIER	Ventana Canyon Wash/Esperero Wash	APPROXIMATE LATITUDE & LONGITUDE: 32.266, -110.848 SOURCE: Other DATUM: NAD 83	

ANNOTATED MAPPING ENCLOSURES			ANNOTATED STUDY ENCLOSURES
TYPE: FIRM*	NO.: 04019C1655K	DATE: February 8, 1999	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: February 08, 1999
TYPE: FIRM	NO.: 04019C1665K	DATE: February 8, 1999	PROFILE(S): 209P-218P, 218P(a), 218P(b), 218P(c), 218P(d); AND 52P-56P
TYPE: FIRM	NO.: 04019C1663K	DATE: February 8, 1999	FLOODWAY DATA TABLE: TABLE 4

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

Ventana Canyon Wash - from the confluence of Tanque Verde Wash to approximately 8,450 feet upstream of Ventana Canyon Drive

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Ventana Canyon Wash	Zone AE	Zone AE	YES	YES
	BFEs*	BFEs	YES	YES
	Floodway	Floodway	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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Mitigation Directorate

112553 10.3.1.09092406 102-I-A-C

Federal Emergency Management Agency
Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Esperero Wash - From the Confluence with Ventana Canyon Wash to approximately 9,740 upstream

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Esperero Wash	Zone AE	Zone AE	YES	YES
	BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	YES
	Zone X (shaded)	Zone X (shaded)	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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Mitigation Directorate

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.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075. 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)

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 and FIS report for Pima County in our countywide format; therefore, we will not physically revise and republish the FIRM and FIS report 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 [other] 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 and FIS report before they become 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 Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 6730 Santa Barbara Court, Elkridge, MD 21075. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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Engineering Management Branch
Mitigation Directorate

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

PUBLIC NOTIFICATION

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD 29)		MAP PANEL NUMBER(S)
		EFFECTIVE	REVISED	
Ventana Canyon Wash	Approximately 400 feet upstream of Cloud Road	2,487	2,488	04019C1663K
	At the Upstream Limit of Detailed Study	None	3,223	04019C1655K
Esperero Wash	Just upstream of Sunrise Drive	2,721	2,724	04019C1665K
	At the Upstream Limit of Detailed Study	None	3,073	04019C1655K

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 BFEs presented in this LOMR may be changed.

A notice of changes will be published in the *Federal Register*. A short notice also will be published in your local newspaper on or about the dates listed below. Please refer to FEMA's website at https://www.floodmaps.fema.gov/fhm/Scripts/bfe_main.asp for a more detailed description of proposed BFE changes, which will be posted approximately within a week of the date of this letter.

LOCAL NEWSPAPER Name: *The Daily Territorial*
Dates: 05/07/2010 05/14/2010

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, 6730 Santa Barbara Court, Elkridge, MD 21075. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Beth A Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Mitigation Directorate

ELEVATION IN FEET (NGVD 29)

2740
2730
2720
2710
2700
2690
2680
2670
2660
2650

0 200 400 600 800 1,000 1,200 1,400 1,600 1,800 2,000 2,200 2,400 2,600

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH VENTANA CANYON WASH

SUNRISE DRIVE

A B C

LEGEND

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

FLOOD PROFILES

ESPERERO WASH

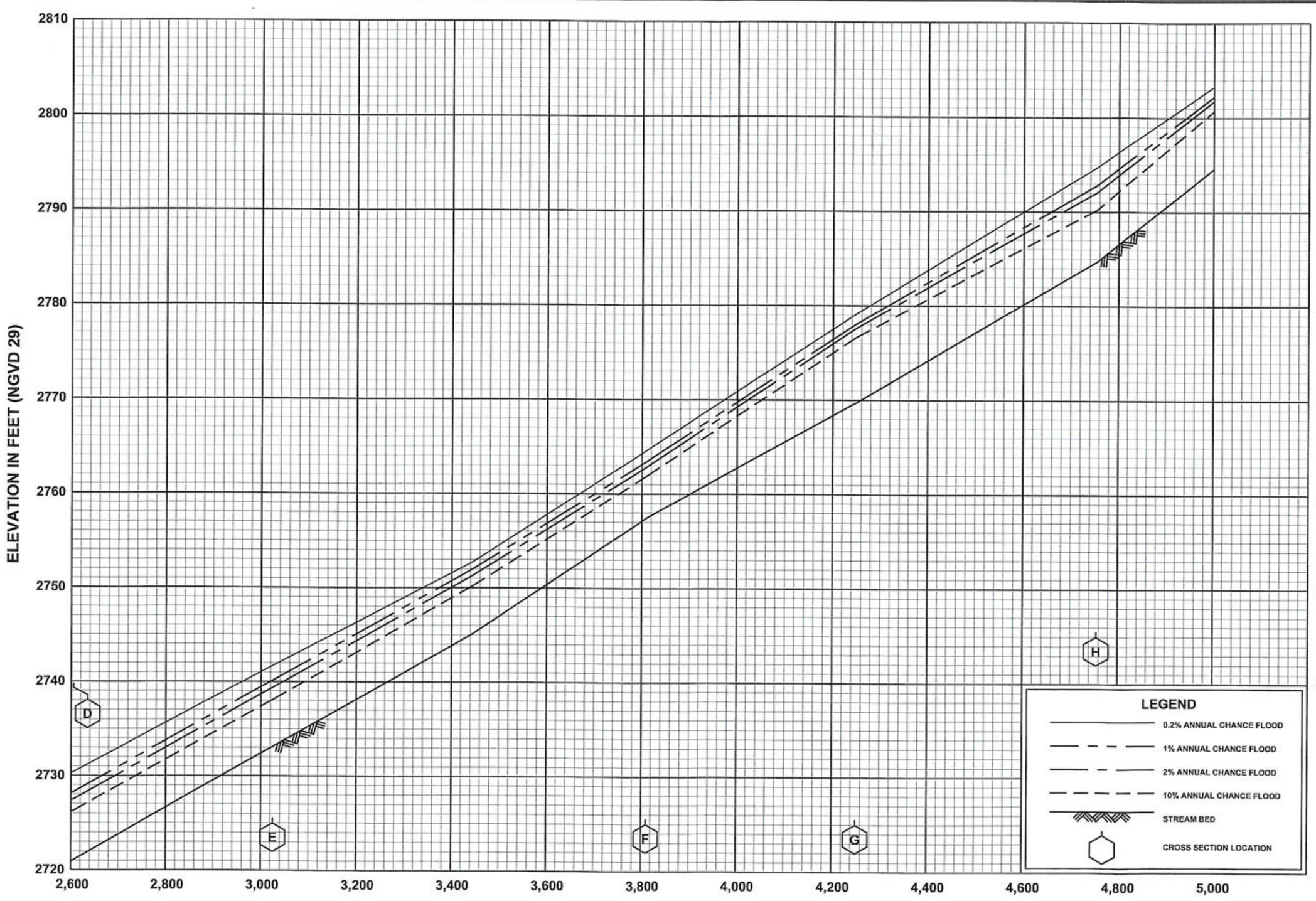
REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY , AZ

AND INCORPORATED AREAS

52P



FLOOD PROFILES

ESPERERO WASH

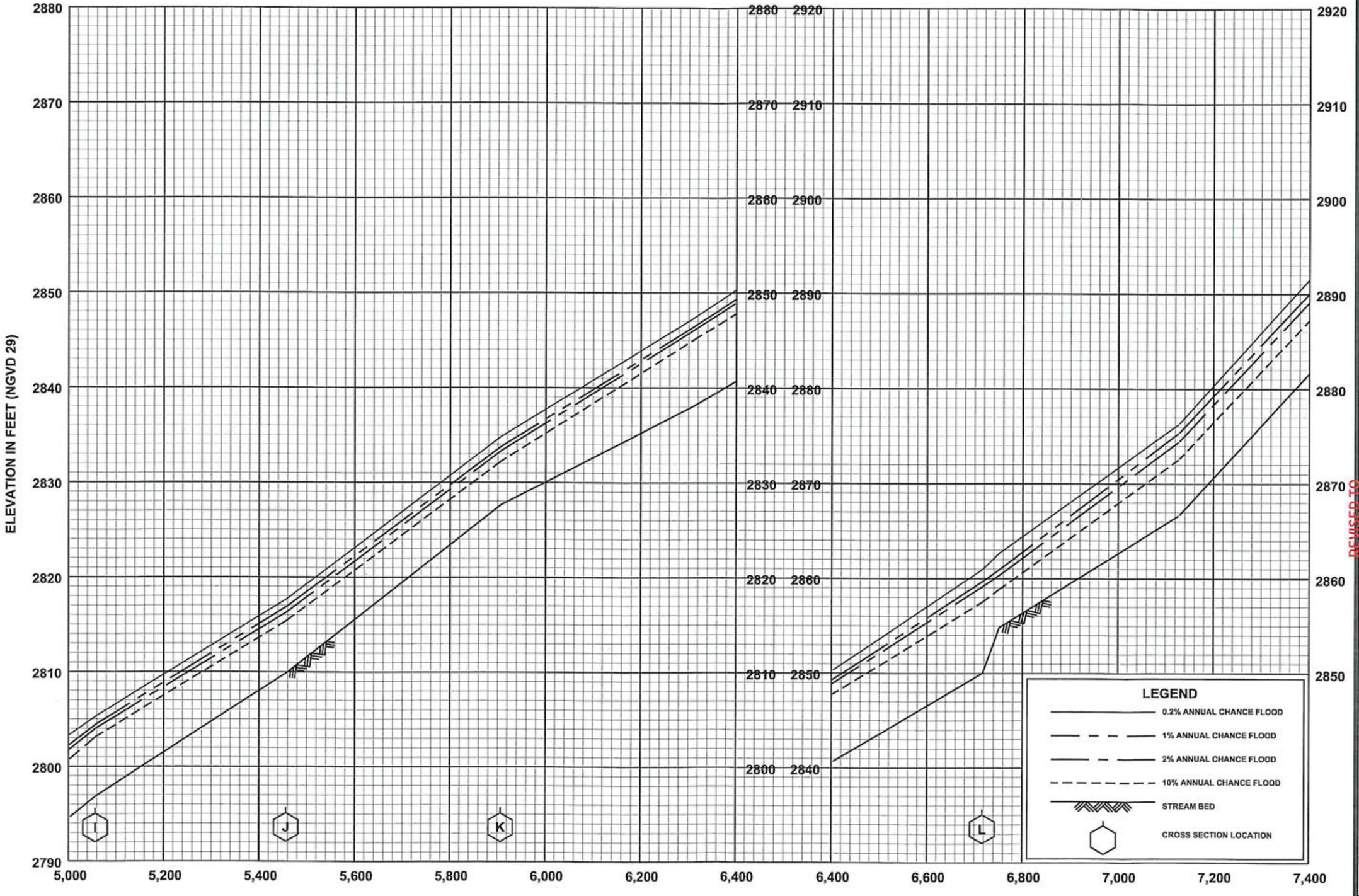
REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

53P



REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

FLOOD PROFILES

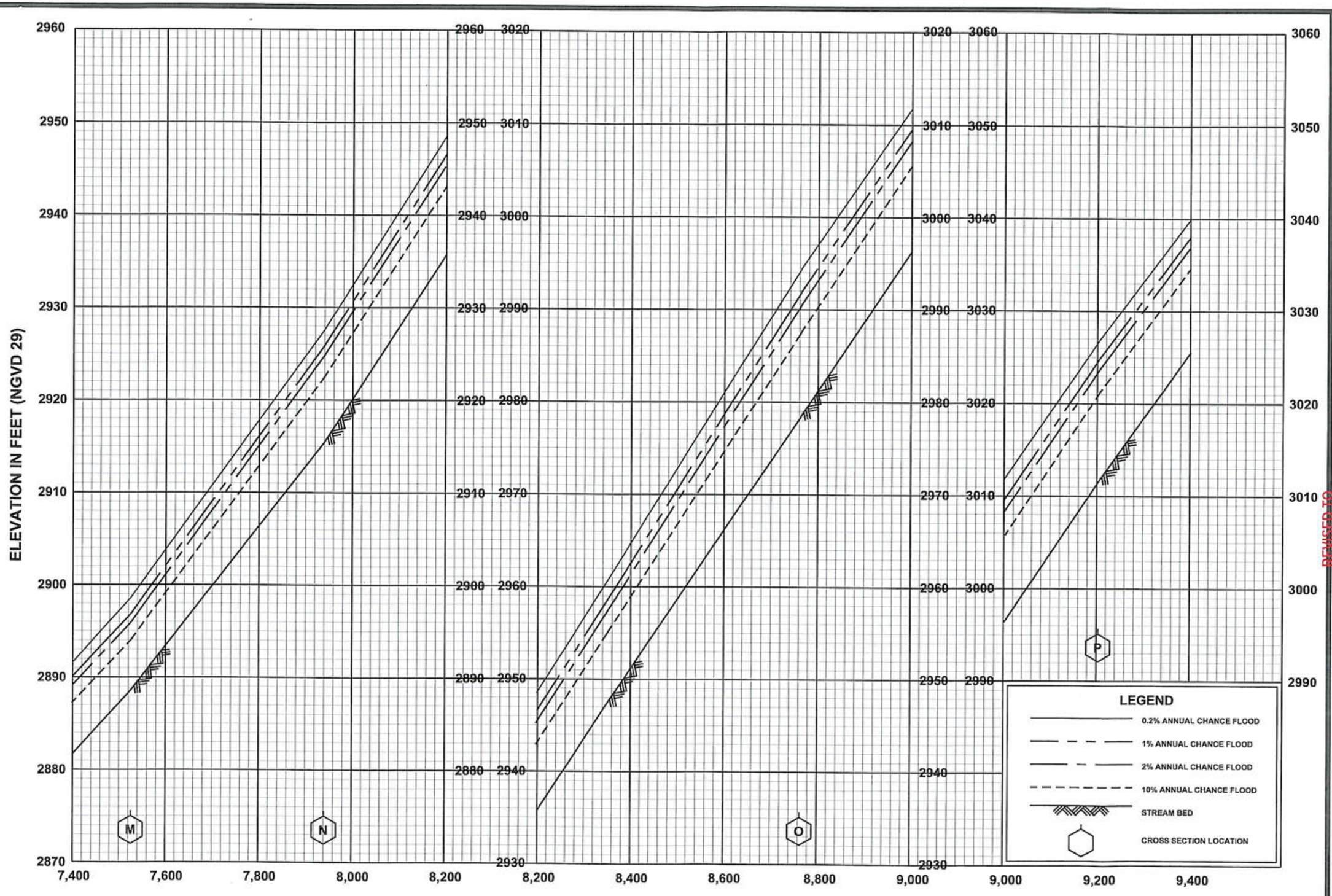
ESPERERO WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY , AZ

AND INCORPORATED AREAS

54P



FLOOD PROFILES

ESPERERO WASH

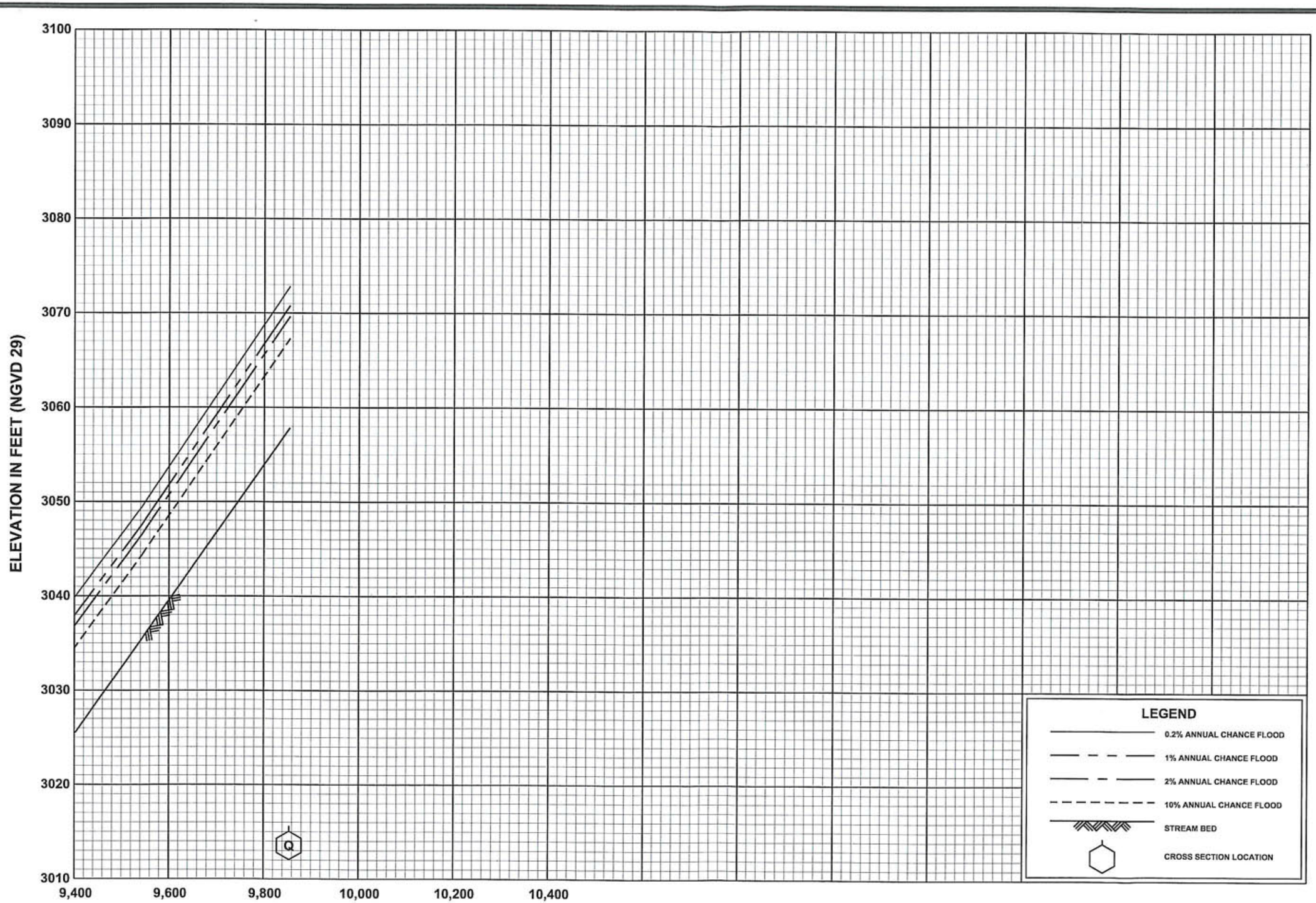
REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY , AZ

AND INCORPORATED AREAS

55P



FLOOD PROFILES

ESPERERO WASH

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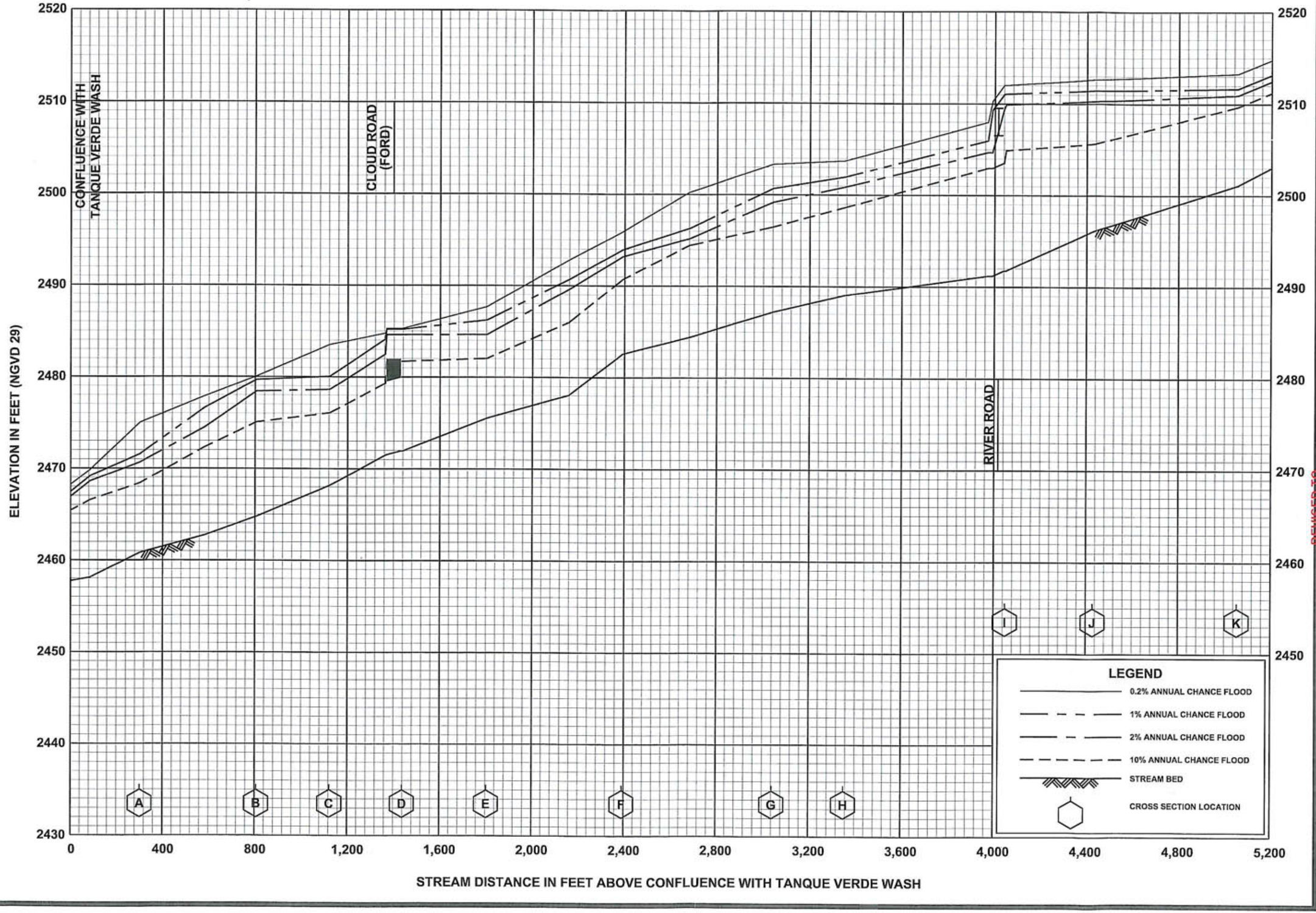
FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY , AZ

AND INCORPORATED AREAS

56P



FLOOD PROFILES

REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

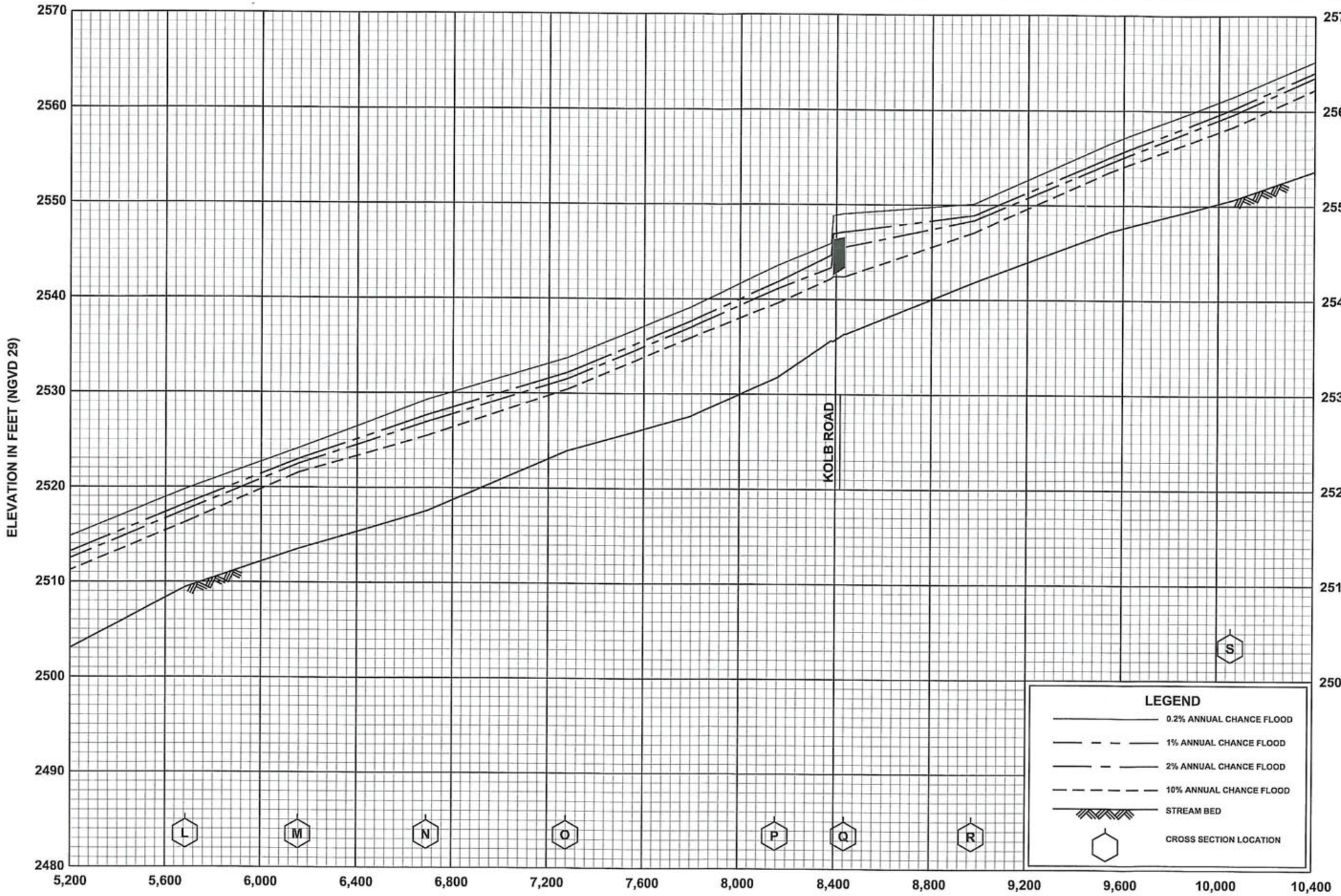
VENTANA CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

209P



FLOOD PROFILES

REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

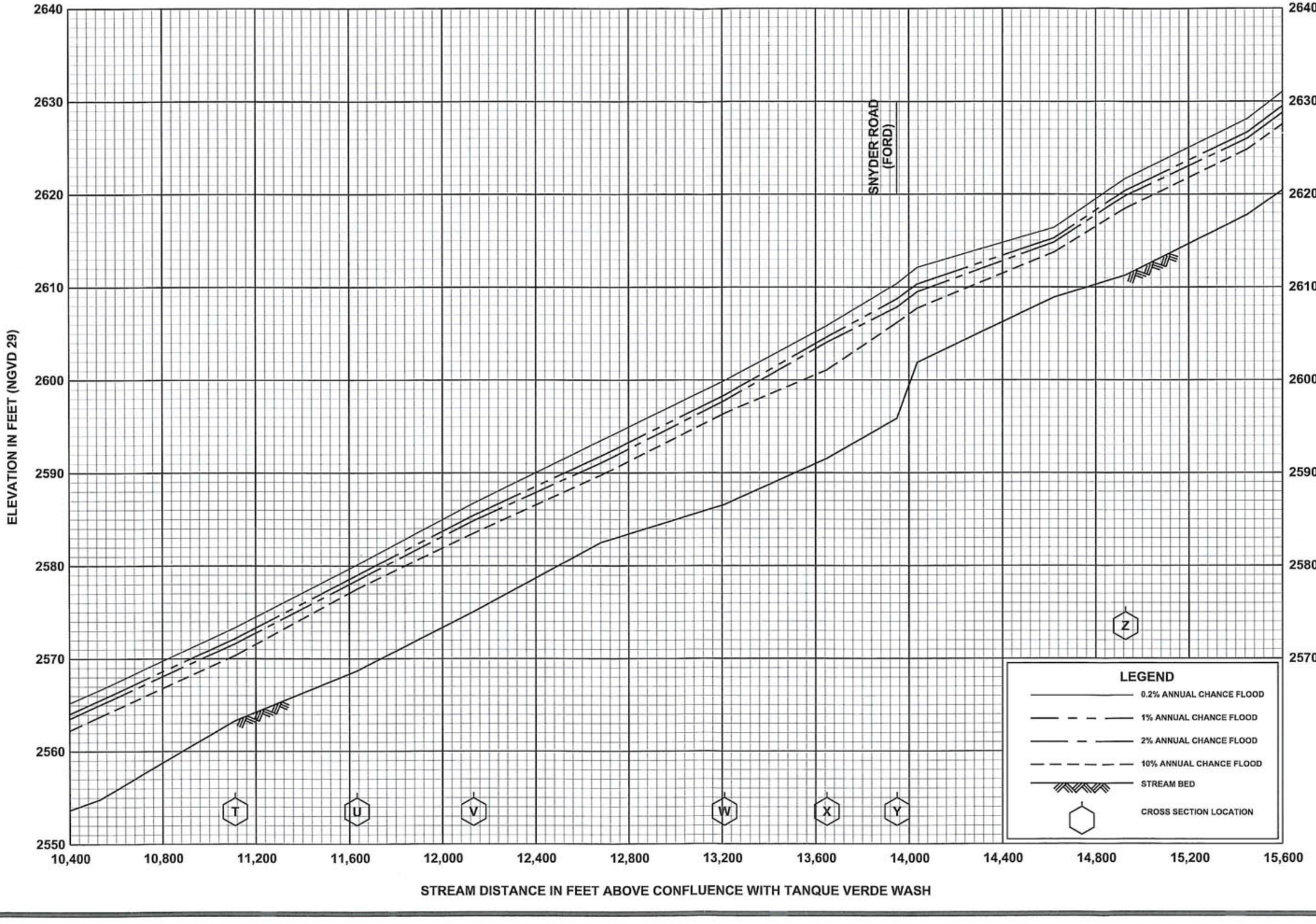
VENTANA CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

210P



FLOOD PROFILES

REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

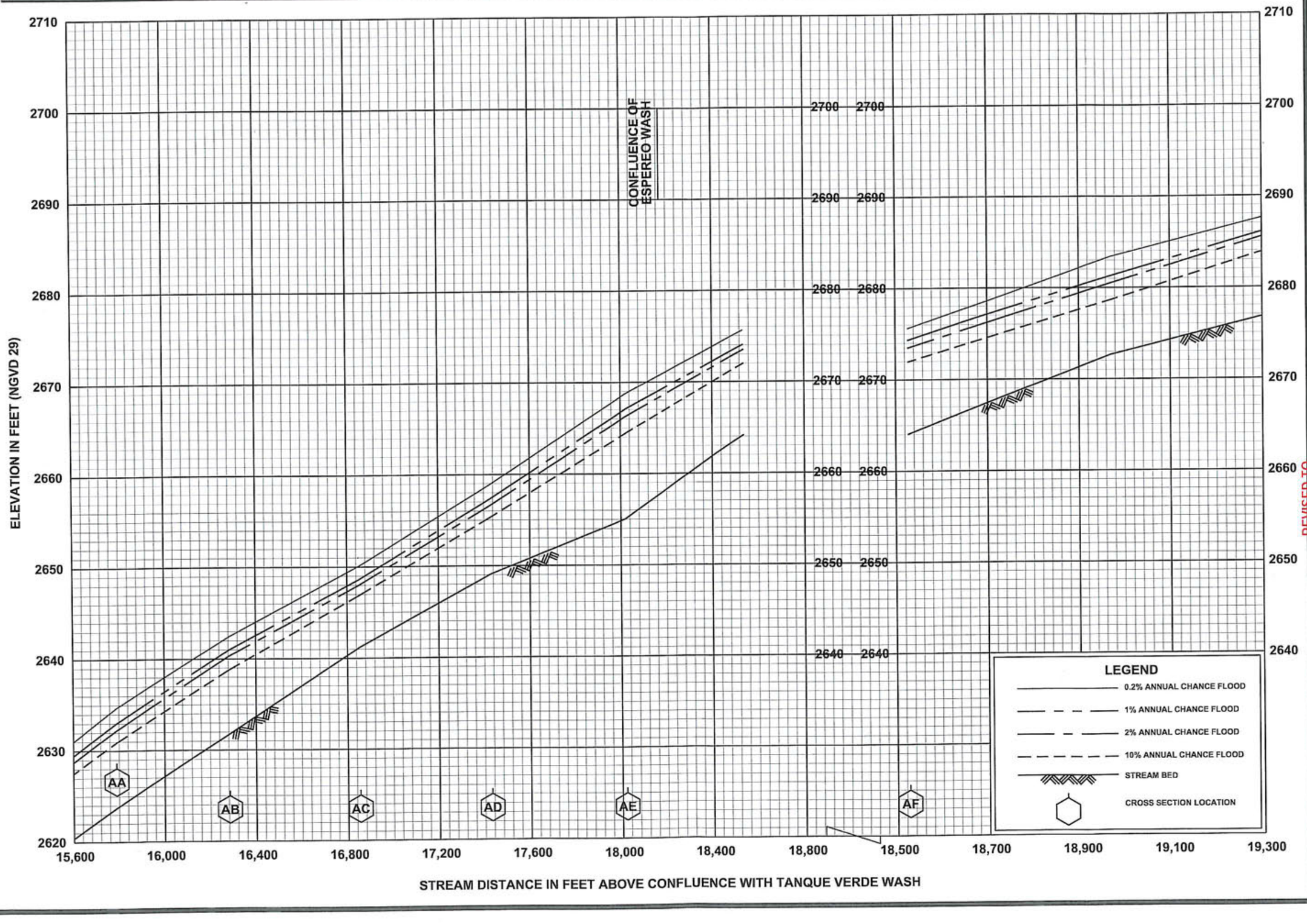
VENTANA CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

211P



REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

FLOOD PROFILES

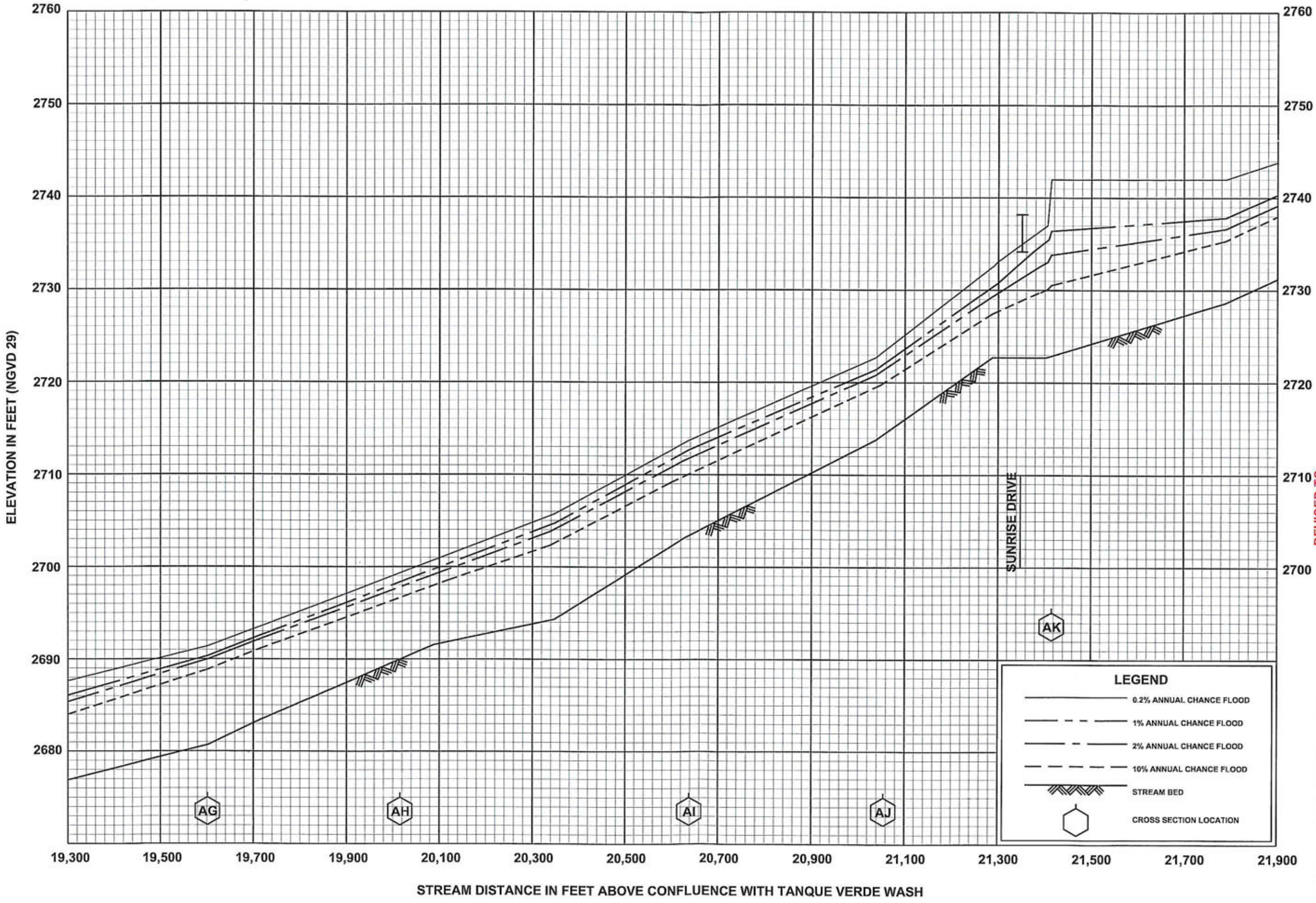
VENTANA CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

212P



REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

FLOOD PROFILES

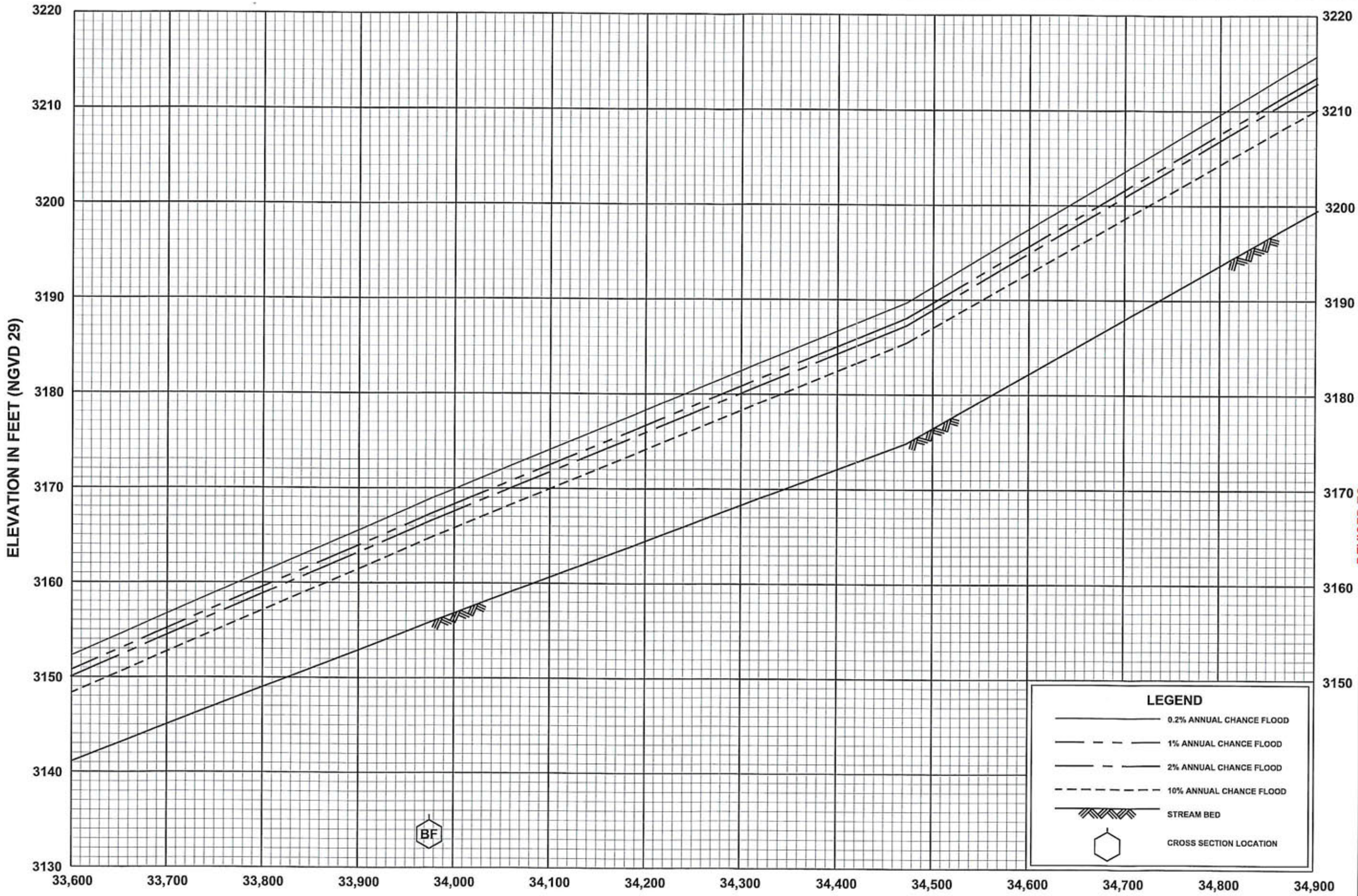
VENTANA CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

213P



FLOOD PROFILES

REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

VENTANA CANYON WASH

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

218P(c)

ELEVATION IN FEET (NGVD 29)

3260
3250
3240
3230
3220
3210
3200
3190
3180
3170

34,900
35,000
35,100

BG

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH TANQUE VERDE WASH

LEGEND

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

FLOOD PROFILES

REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

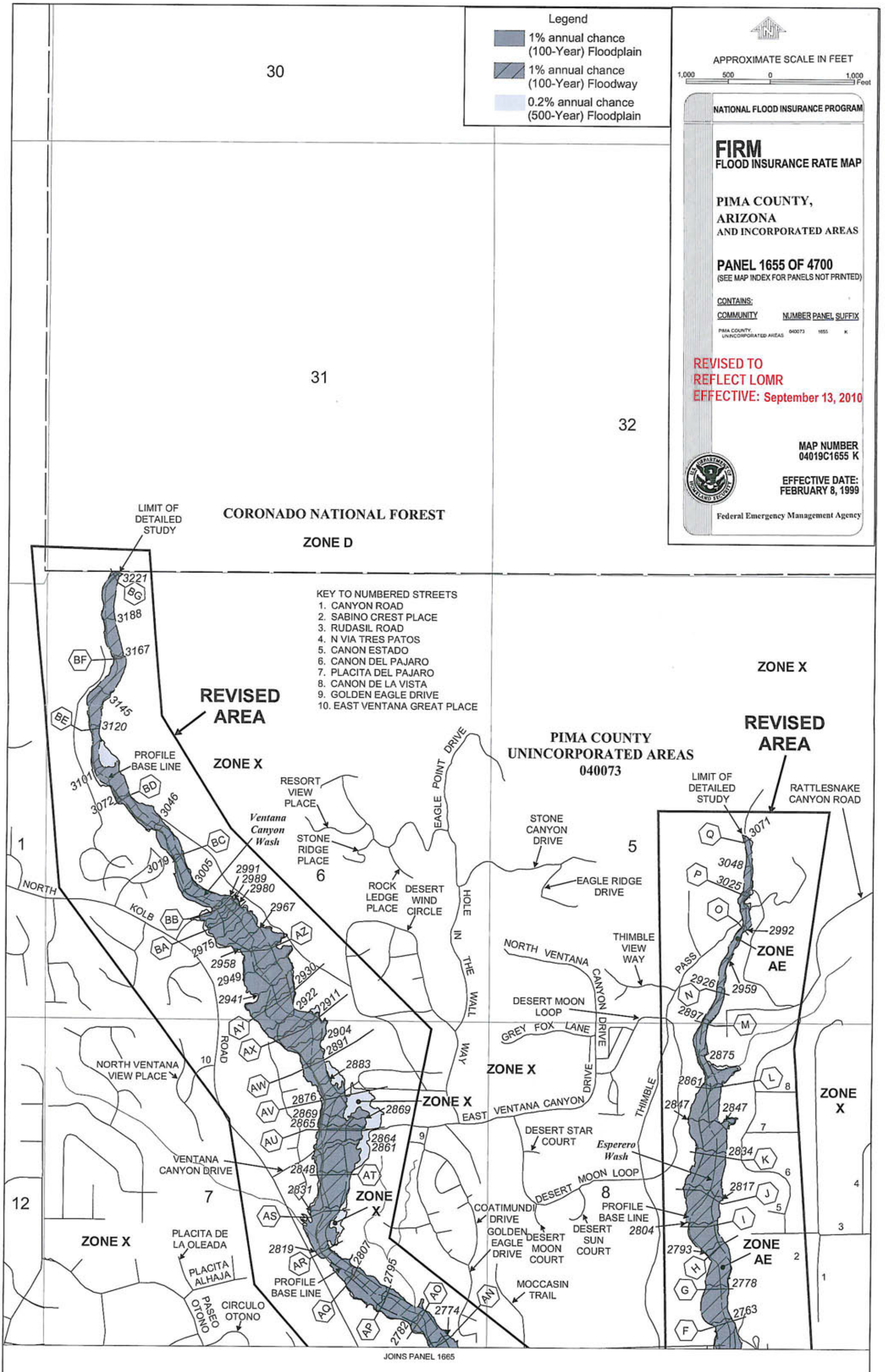
VENTANA CANYON WASH

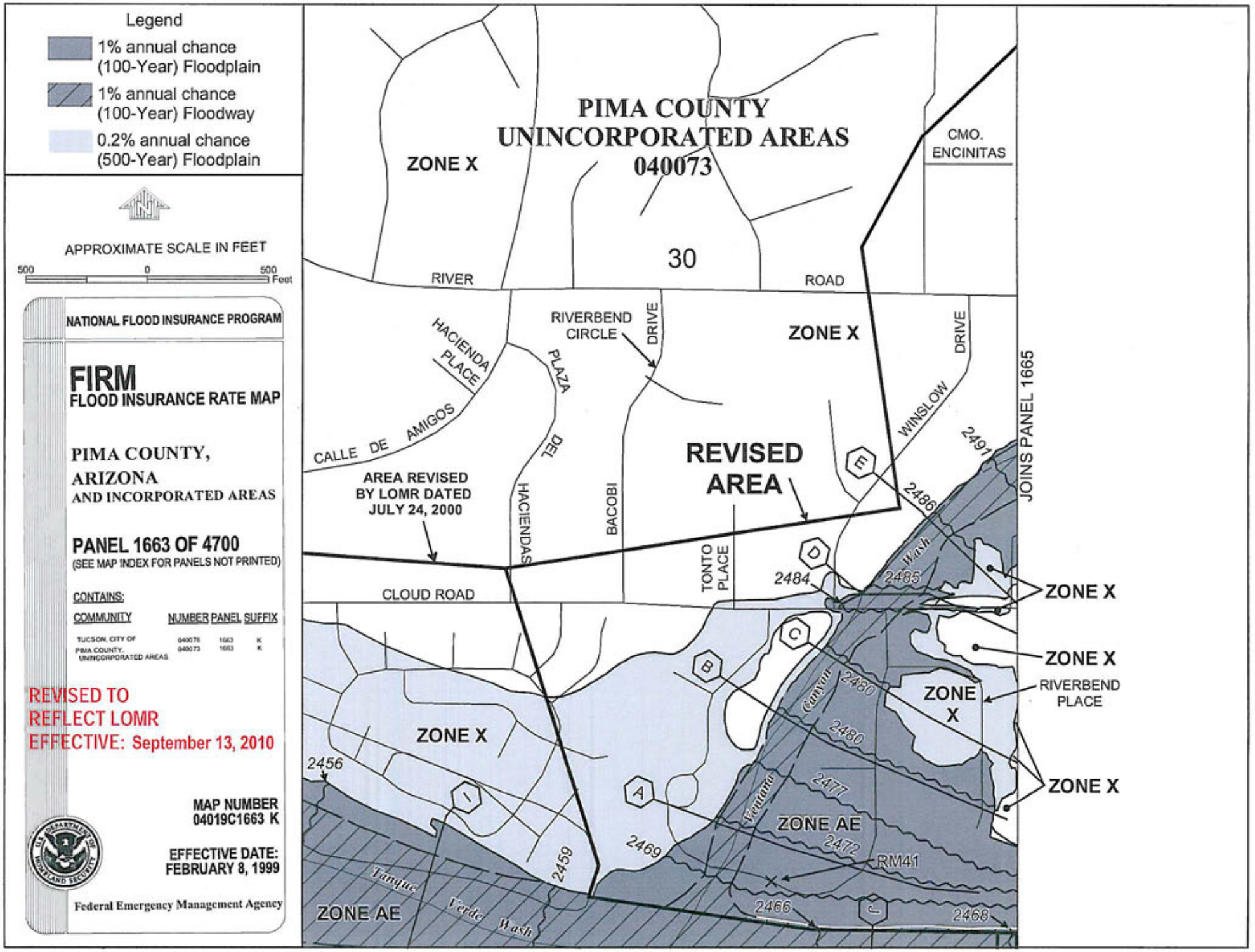
FEDERAL EMERGENCY MANAGEMENT AGENCY

PIMA COUNTY, AZ

AND INCORPORATED AREAS

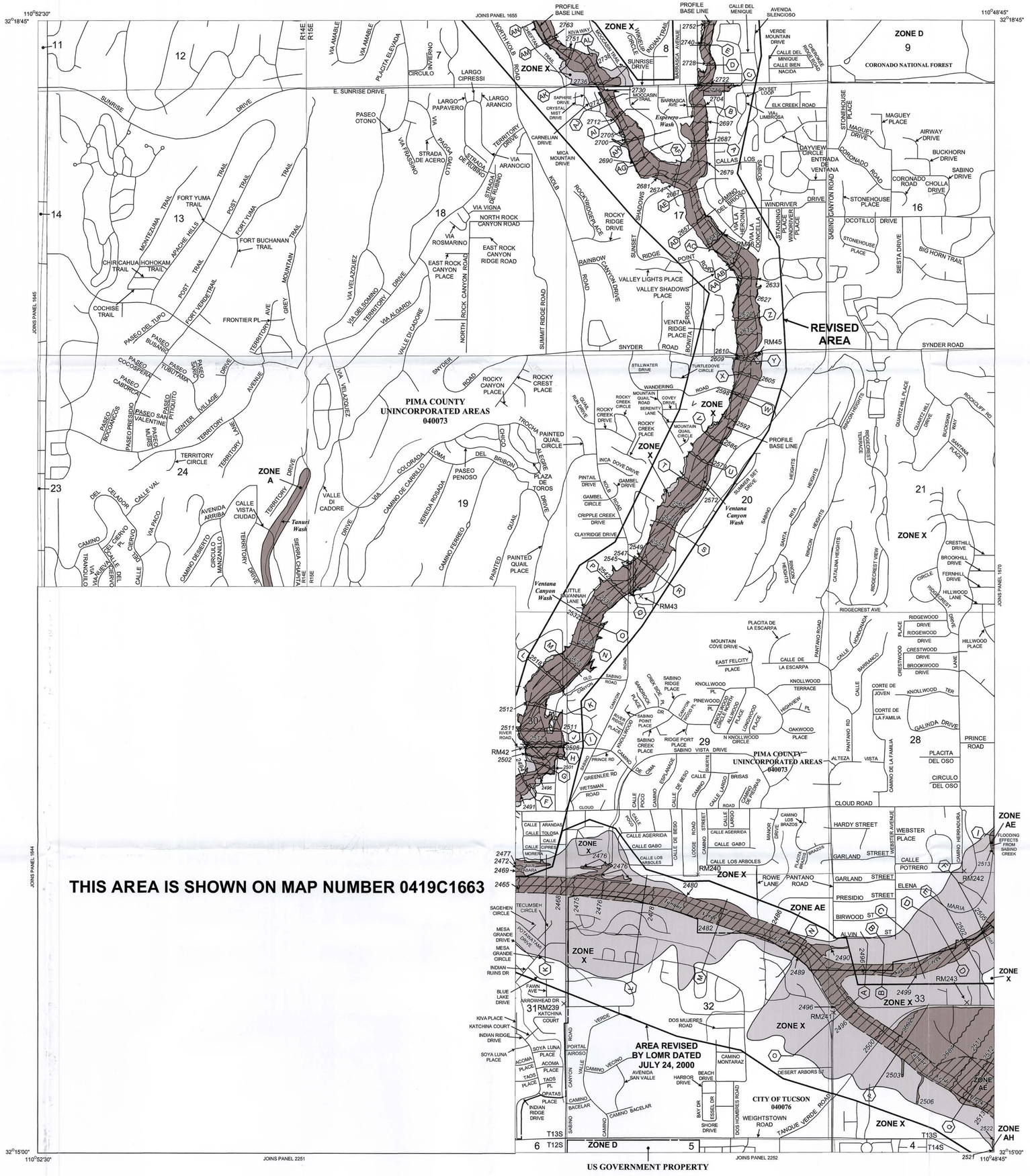
218P(d)


Legend
1% annual chance (100-Year) Floodplain
1% annual chance (100-Year) Floodway
0.2% annual chance (500-Year) Floodplain
APPROXIMATE SCALE IN FEET
1,000 500 0 1,000 Feet
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS
PANEL 1655 OF 4700
(SEE MAP INDEX FOR PANELS NOT PRINTED)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
PIMA COUNTY, UNINCORPORATED AREAS 040073 1655 K
REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010
MAP NUMBER 04019C1655 K
EFFECTIVE DATE: FEBRUARY 8, 1999
Federal Emergency Management Agency
30
31
32
LIMIT OF DETAILED STUDY
CORONADO NATIONAL FOREST
ZONE D
KEY TO NUMBERED STREETS
1. CANYON ROAD
2. SABINO CREST PLACE
3. RUDASIL ROAD
4. N VIA TRES PATOS
5. CANON ESTADO
6. CANON DEL PAJARO
7. PLACITA DEL PAJARO
8. CANON DE LA VISTA
9. GOLDEN EAGLE DRIVE
10. EAST VENTANA GREAT PLACE
REVISED AREA
ZONE X
PROFILE BASE LINE
Ventana Canyon Wash
RESORT VIEW PLACE
STONE RIDGE PLACE
EAGLE POINT DRIVE
ROCK LEDGE PLACE
DESERT WIND CIRCLE
HOLE IN THE WALL WAY
NORTH KOLB ROAD
NORTH VENTANA VIEW PLACE
VENTANA CANYON DRIVE
PLACITA DE LA OLEADA
PLACITA ALHAJA
PASEO OTONO
CIRCULO OTONO
ZONE X
PIMA COUNTY UNINCORPORATED AREAS 040073
ZONE X
REVISED AREA
LIMIT OF DETAILED STUDY
RATTLESNAKE CANYON ROAD
STONE CANYON DRIVE
EAGLE RIDGE DRIVE
THIMBLE VIEW WAY
NORTH VENTANA CANYON DRIVE
DESERT MOON LOOP
GREY FOX LANE
EAST VENTANA CANYON DRIVE
DESERT STAR COURT
COATIMUNDI DRIVE
GOLDEN EAGLE DRIVE
DESERT MOON COURT
DESERT SUN COURT
MOCCASIN TRAIL
PROFILE BASE LINE
Esperero Wash
THIMBLE PASS
ZONE AE
ZONE X
ZONE AE
ZONE X
JOINS PANEL 1665


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 0 500 Feet
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS
PANEL 1663 OF 4700
(SEE MAP INDEX FOR PANELS NOT PRINTED)
CONTAINS:
COMMUNITY NUMBER PANEL SUFFIX
TUCSON, CITY OF 040076 1663 K
PIMA COUNTY, UNINCORPORATED AREAS 040073 1663 K
REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010
MAP NUMBER 04019C1663 K
EFFECTIVE DATE: FEBRUARY 8, 1999
Federal Emergency Management Agency
PIMA COUNTY UNINCORPORATED AREAS 040073
ZONE X
30
CMO. ENCINITAS
RIVER ROAD
RIVERBEND CIRCLE
DRIVE
HACIENDA PLACE
PLAZA DEL HACIENDAS
CALLE DE AMIGOS
BACOBI
WINSLOW DRIVE
JOINS PANEL 1665
REVISED AREA
AREA REVISED BY LOMR DATED JULY 24, 2000
TONTO PLACE
CLOUD ROAD
2491
2486
2485
2484
Wash
ZONE X
ZONE X
ZONE X
RIVERBEND PLACE
ZONE X
ZONE X
2480
2480
Canyon
2477
Ventana
ZONE AE
2472
RM41
2469
2459
2456
2466
2468
Tanque Verde Wash
ZONE AE

ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FEET NGVD)	DESCRIPTION OF LOCATION
RM42	2508. 81	X marked in concrete located on downstream edge of bridge crossing Ventana Canyon Wash at River Road near left abutment between rail supports. Established by U.S. Geological Survey.
RM43	2554. 56	U.S. Geological Survey brass disk stamped LS 4758" set in Sabino Canyon Road located at north end of curve 3200 feet north along Sabino Canyon Road from River Road.
RM45	2615. 80	U.S. Geological Survey 0.5 - inch rebar, located on east bank o Ventana Canyon Wash, 6 feet east of powerline pole downstream from Snyder Road.
RM46	2651. 66	U.S. Geological Survey 0.5 - inch bolt imbedded in concrete located on east bank, 12 feet upstream from dug well, approximately 2500 feet above Snyder Road.
RM47	2727. 03	U.S. Geological Survey 0.5 - inch rebar, located on top of upstream headwall on centerline of culvert on Sabino Canyon West Road.
RM239	2499. 71	Pima County Highway Department brass disk in concrete monument stamped PCHD Aug. 75 3132 T. 13 S., R. 15 E., located in quarter section corner, near centerline of Sabino Canyon Road.
RM241	2498. 08	Railroad spike in power pole, located at T powerline intersection, on south end of Lodge Road, near quarter section corner of sections 29 and 32, T. 13 S., R. 15 E. Established by Kucera and Associates Inc.
RM240	2489. 16	Chiseled +, located on south side of Bell System manhole rim, most southerly one of two such manholes, approximately 0.3 mile north of intersection of Pantano and Tanque Verde Roads. Established by Kucera and Associates Inc.
RM242	2508. 56	Railroad spike in power pole located at T intersection of powerline near quarter section corner of sections 28 and 33, T. 13 S., R. 15 E. Established by Kucera and Associates Inc.
RM243	2507. 09	Railroad spike in power pole, located north side of Tanque Verde Road, approximately 175 feet west of dip in highway, near center of section 33, T. 13 S., R. 15 E. Established by Kucera and Associates Inc.



LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A — No base flood elevations determined.
- ZONE AE — Base flood elevations determined.
- ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO — 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.
- ZONE A99 — To be protected from 100-year flood by Federal flood protection system under construction ; no base flood elevation determined.
- ZONE V — Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE — Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X — Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

- ZONE X — Areas determined to be outside 500-year floodplain.
- ZONE D — Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

Identified 1983 | Identified 1990 | Otherwise Protected Areas

Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
- 513 — Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.
- D — D (EL 987) — Cross Section Label
- Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.
- RM7 — Elevation Reference Mark
- M2 — River Mile

* Referenced to the National Geodetic Vertical Datum of 1929

NOTES

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, or all planimetric features outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BFE's, and for any information on floodway delineations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, A1-A30, AH, AO, A99, V, VE, and V1-V30.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data table where floodway width is shown at 1/20 inch.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map may incorporate approximate boundaries of Coastal Boundaries Resource System Units and / or Otherwise Protected Areas established under the Coastal Barrier Improvement Act of 1990 (PL 101-591).

For community map revision history prior to countywide map, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed Map Index.

MAP REPOSITORY
Refer to Repository Listing on Map Index

EFFECTIVE DATE OF FLOOD INSURANCE RATE MAP:
FEBRUARY 8, 1999

EFFECTIVE DATE(S) OF REVISIONS(S) TO THIS PANEL:

Refer to the FLOOD INSURANCE RATE MAP EFFECTOVE DATE shown on this map to determine when actuarial rates apply to structures in zones where elevations or depths have been established.

To determine if flood insurace is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.

1000 0 1000 Feet

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA
AND INCORPORATED AREAS

PANEL 1665 OF 4700

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
TUCSON, CITY OF	040076	1665	K
PIMA COUNTY, UNINCORPORATED AREAS	040073	1665	K

REVISED TO REFLECT LOMR EFFECTIVE: September 13, 2010

MAP NUMBER 04019C1665 K

EFFECTIVE DATE: FEBRUARY 8, 1999

Federal Emergency Management Agency