



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Moorpark Ventura County California	NO PROJECT	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS
	COMMUNITY NO.: 060712		
IDENTIFIER	Arroyo Simi	APPROXIMATE LATITUDE & LONGITUDE: 34.276, -118.891 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 06111C0838E DATE: January 20, 2010 TYPE: FIRM* NO.: 06111C0818E DATE: January 20, 2010 TYPE: FIRM* NO.: 06111C0819E DATE: January 20, 2010 TYPE: FIRM* NO.: 06111C0817E DATE: January 20, 2010 TYPE: FIRM* NO.: 06111C0836E DATE: January 20, 2010		DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: January 20, 2010 PROFILE(S): 36P - 40P, 203P FLOODWAY DATA TABLE: 8 SUMMARY OF DISCHARGES TABLE: 5	

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)

See Page 2 for Additional Flooding Sources

Arroyo Las Posas/Arroyo Simi - from approximately 300 feet upstream of Hitch Boulevard to approximately 3,900 feet upstream of Avenida Colonia

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Arroyo Las Posas/Arroyo Simi	Zone AE	Zone AE	YES	YES
	Zone AO	Zone AE	YES	YES
	Zone AO	Zone X (shaded)	NONE	YES
	Zone AE	Zone X (shaded)	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, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. 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  
Federal Insurance and Mitigation Administration

122451 PT202.BKR.10092904P.H15 102-I-A-C



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

**OTHER FLOODING SOURCES AFFECTED BY THIS REVISION**

**FLOODING SOURCE(S) & REVISED REACH(ES)**

Arroyo Las Posas/Arroyo Simi - from approximately 300 feet upstream of Hitch Boulevard to approximately 3,900 feet upstream of Avenida Colonia  
Arroyo Simi Overflow - from immediately upstream of Spring Road to the confluence with Arroyo Las Posas/Arroyo Simi  
Moorpark Storm Drain Number 2 - from the confluence with Arroyo Las Posas/Arroyo Simi to approximately 1,200 feet upstream

**SUMMARY OF REVISIONS**

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Arroyo Las Posas/Arroyo Simi	BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	YES
Arroyo Simi Overflow	Zone AO	Zone AH	NONE	YES
	Zone AO	Zone X (shaded)	YES	NONE
	Zone X (shaded)	Zone AH	YES	NONE
	BFEs	BFEs	YES	NONE
Moorpark Storm Drain Number 2	Zone AO	Zone AE	YES	YES
	Zone AO	Zone X (shaded)	NONE	YES
	BFEs	BFEs	YES	YES

\* BFEs - Base Flood Elevations

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

**OTHER COMMUNITIES AFFECTED BY THIS REVISION**

**CID Number:** 060413**Name:** Ventura County, California (Unincorporated Areas)**AFFECTED MAP PANELS**

TYPE: FIRM*	NO.: 06111C0818E	DATE: January 20, 2010
TYPE: FIRM*	NO.: 06111C0836E	DATE: January 20, 2010

**AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT**

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: January 20, 2010  
 PROFILE(S): 36P - 40P  
 FLOODWAY DATA TABLE: 8  
 SUMMARY OF DISCHARGES TABLE: 5

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, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. 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)

### 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 base (1-percent-annual-chance) flood 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 Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. 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 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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. 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**

**PUBLIC NOTIFICATION**

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NAVD 88)		MAP PANEL NUMBER(S)
		EFFECTIVE	REVISED	
Arroyo Las Posas/Arroyo Simi	Approximately 2,400 feet upstream of the confluence with Peach Hill Wash	447	446	06111C0818E
	Approximately 1,900 feet downstream of State Highway 118	548	527	06111C0836E
Arroyo Simi Overflow	Immediately upstream of Spring Road	2 <sup>#</sup>	527	06111C0838E
	Immediately downstream of the confluence with Arroyo Simi	3 <sup>#</sup>	535	06111C0838E

<sup>#</sup>Depth in feet above ground

The changes in the BFEs for Moorpark Storm Drain Number 2 are minor and do not change the whole-foot BFEs shown on the effective FIRM, therefore, no changes in BFEs for Moorpark Storm Drain Number 2 will be published in the local newspaper.

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 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/fhtm/Scripts/bfe\\_main.asp](https://www.floodmaps.fema.gov/fhtm/Scripts/bfe_main.asp) for a more detailed description of proposed BFE changes, which will be posted within a week of the date of this letter.

LOCAL NEWSPAPER      Name: *Ventura County Star*  
Dates: February 4, 2011      February 11, 2011

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, 7390 Coca Cola Drive, Suite 204, Hanover, MD 21076. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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TABLE 5 - SUMMARY OF DISCHARGES

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cfs)			
		10-PERCENT	2-PERCENT	1-PERCENT	0.2-PERCENT
<b>ADAMS CANYON</b>					
At Telegraph Road	8.4	1,200	3,100	4,200	7,400
<b>ALAMOS CANYON</b>					
At Southern Pacific Railroad	6.0	*	*	3,800	*
<b>ARROYO LAS POSAS</b>					
Upstream of confluence of Peach Hill Wash	117.4	8,300	17,120	21,580	36,520
Downstream of confluence of Long Canyon Creek	143.35	9,390	19,460	25,100	41,500
<b>ARROYO SANTA ROSA</b>					
Upstream of confluence with Arroyo Conejo	14.35	1,970	3,770	4,740	7,510
At confluence of Tributary to Arroyo Santa Rosa	13.04	1,980	3,800	4,770	7,570
At East Las Poras Road	8.33	1,861	3,561	4,473	7,099
At Santa Rosa Road	8.61	1,770	2,610	2,830	3,650
Downstream of Duval Road	9.29	1,750	2,580	2,790	3,580
<b>ARROYO SIMI</b>					
Downstream of confluence with Happy Camp Canyon Creek	113.2	8,300	17,200	22,190	36,670
Downstream of Alamos Canyon	88.7	5,670	13,060	17,460	31,200
Downstream of Brea Canyon	80.2	5,570	12,820	17,140	30,530
Downstream of North Simi Canyon	69.5	5,600	12,890	17,240	30,810
Upstream of Bus Canyon Drain	61.5	5,110	11,950	15,900	28,580
Upstream of Tapo Canyon Channel	32.3	4,440	10,220	13,670	24,420
Downstream of Meier Canyon	30.9	4,460	10,270	13,730	24,540
Upstream of Las Llajas Canyon Channel	10.4	2,410	5,540	7,400	13,230
Upstream of White Oak Canyon	2.7	1,000	2,300	3,080	5,500
<b>ARROYO SIMI OVERFLOW</b>					
Downstream of confluence with Arroyo Simi	*	*	*	2,510	*

**Revised Data**

**REVISED TO  
REFLECT LOMR  
EFFECTIVE: June 13, 2011**

\*Data not available

**Revised Data**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Calleguas Creek/ Arroyo Las Posas/ Arroyo Simi								
A - H *								
I	50,544	231	2,634	9.9	149.8	149.8	150.6	0.8
J	54,147	134	1,721	15.6	173.6	173.6	173.6	0.0
K	56,199	536	6,411	4.3	190.3	190.3	190.3	0.0
L	59,895	1,007	5,123	5.4	196.4	196.4	196.4	0.0
M	61,794	410	3,758	7.4	211.4	211.4	211.4	0.0
N	65,392	675	5,376	5.1	234.6	234.6	234.6	0.0
O	66,847	318	2,126	13.0	242.5	242.5	242.5	0.0
P	67,901	353	1,910	14.5	248.4	248.4	248.4	0.0
Q	70,113	371	2,205	12.5	260.5	260.5	260.5	0.0
R	74,041	519	2,997	8.6	280.9	280.9	280.9	0.0
S	77,593	833	3,829	6.6	305.5	305.5	305.5	0.0
T	80,643	484	3,405	7.4	325.4	325.4	325.4	0.0
U	88,341	230	2,372	10.2	377.0	377.0	377.0	0.0
V	90,092	260	2,197	8.7	384.5	384.5	384.5	0.0
W	93,860	144	1,685	11.4	418.6	418.6	418.6	0.0
X	95,831	175	1,361	15.9	433.6	433.6	433.6	0.0
Y	97,526	106	1,147	18.8	444.1	444.1	444.1	0.0
Z	99,696	172	1,980	10.9	458.9	458.9	458.9	0.0
AA	102,734	136	1,252	17.2	484.6	484.6	484.6	0.0
AB	107,078	232	1,614	16.2	512.7	512.7	513.2	0.5
AC	110,715	201	2,145	9.9	536.2	536.2	536.2	0.0
AD	115,048	196	1,672	12.0	558.2	558.2	559.0	0.8
AE	120,336	490	6,785	3.0	588.4	588.4	588.4	0.0
AF	124,146	437	6,995	3.8	603.8	603.8	603.9	0.1
AG	127,543	978	4,548	3.8	615.4	615.4	615.4	0.0

<sup>1</sup> Feet above mouth at Pacific Ocean

\* Data not available

REVISED TO

REFLECT LOMR

EFFECTIVE: June 13, 2011

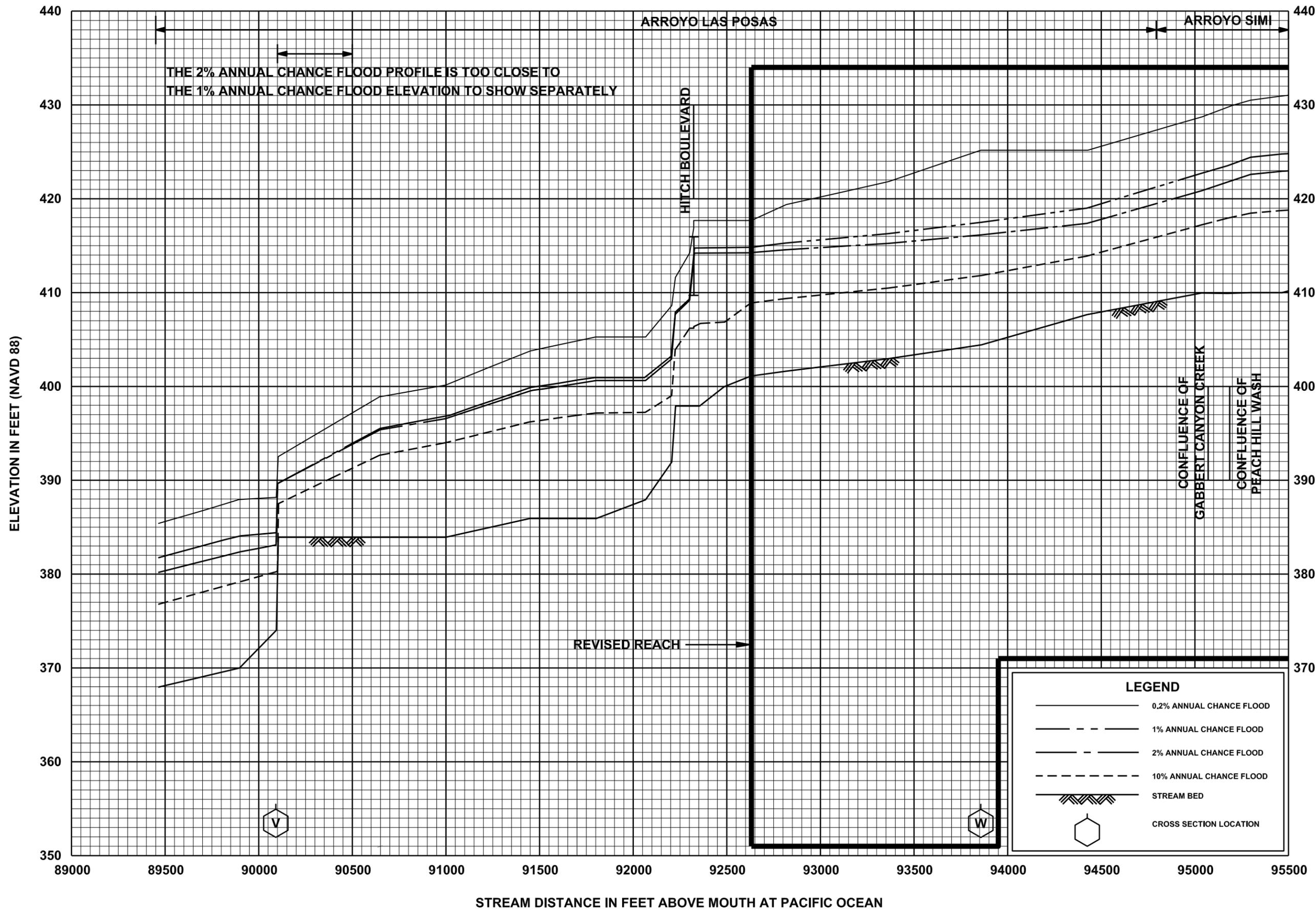
REVISED DATA

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**VENTURA COUNTY, CA**  
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

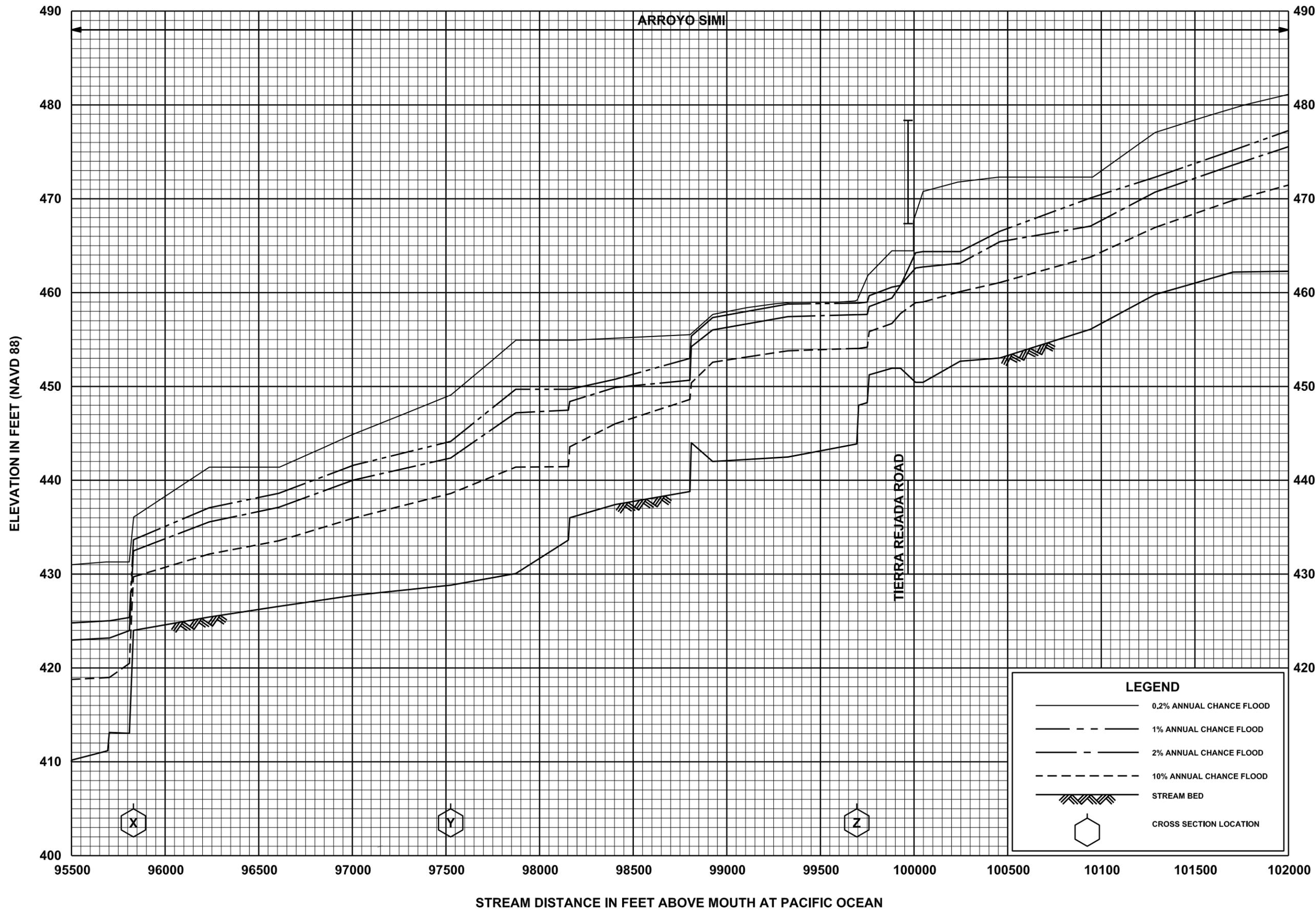
**CALLEGUAS CREEK/ARROYO LAS POSAS/ARROYO SIMI**



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 EFFECTIVE: June 13, 2011

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**VENTURA COUNTY, CA**  
 AND INCORPORATED AREAS

**FLOOD PROFILES**  
 CALLEGUAS CREEK / ARROYO LAS POSAS / ARROYO SIMI



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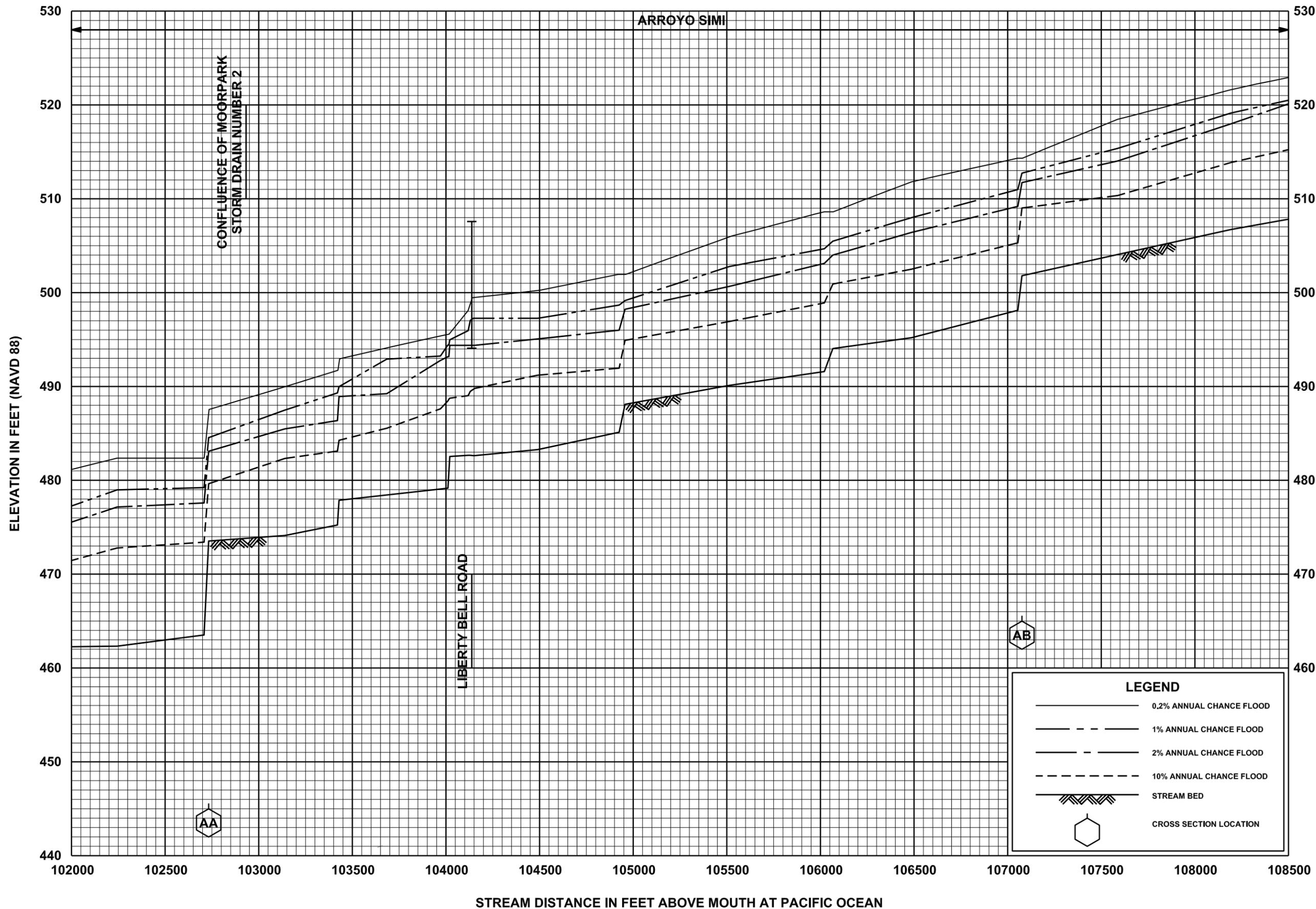
**FLOOD PROFILES**

CALLEGUAS CREEK / ARROYO LAS POSAS / ARROYO SIMI

FEDERAL EMERGENCY MANAGEMENT AGENCY

VENTURA COUNTY, CA

AND INCORPORATED AREAS



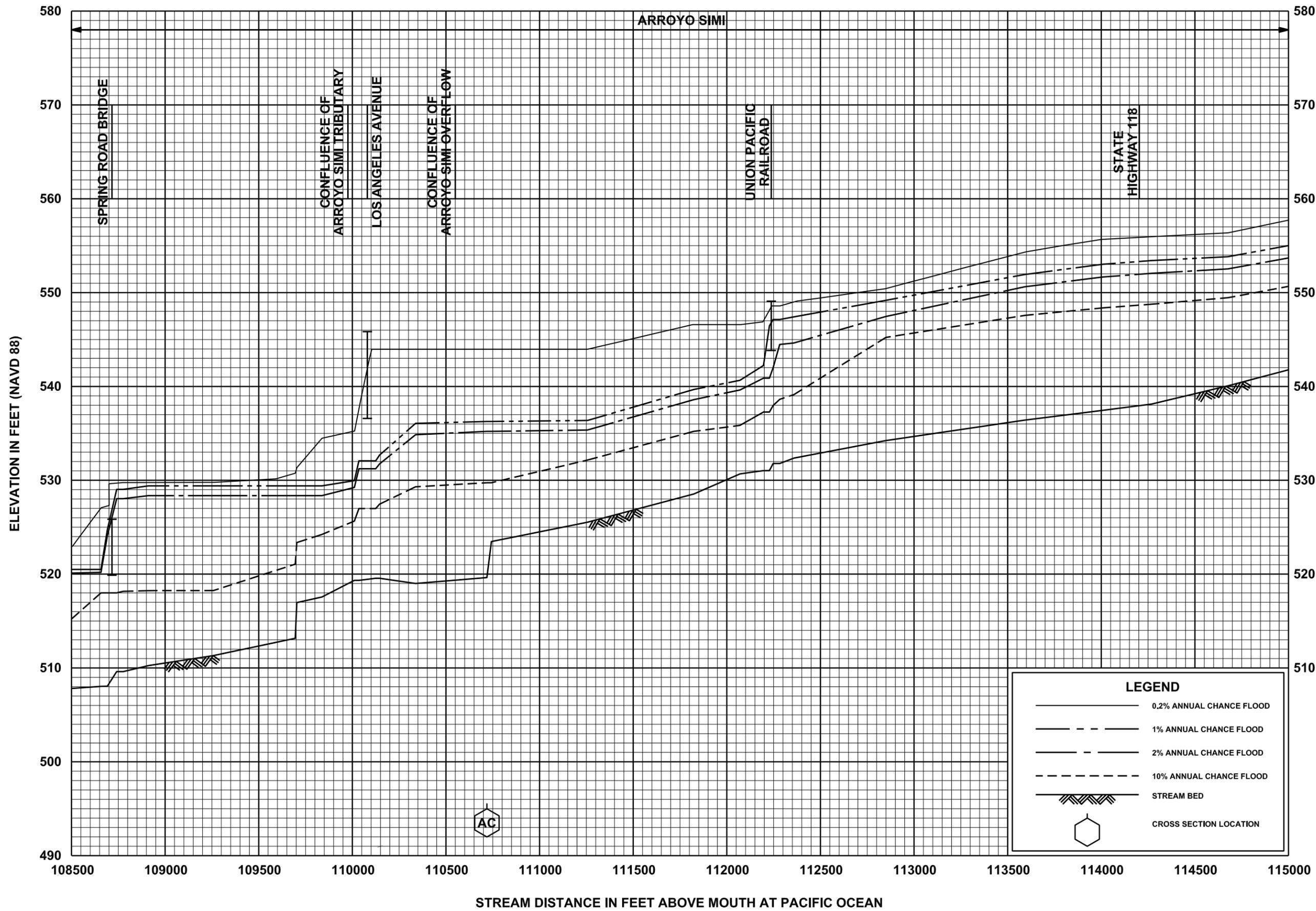
**LEGEND**

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

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FEDERAL EMERGENCY MANAGEMENT AGENCY  
**VENTURA COUNTY, CA**  
 AND INCORPORATED AREAS

**FLOOD PROFILES**  
 CALLEGUAS CREEK / ARROYO LAS POSAS / ARROYO SIMI

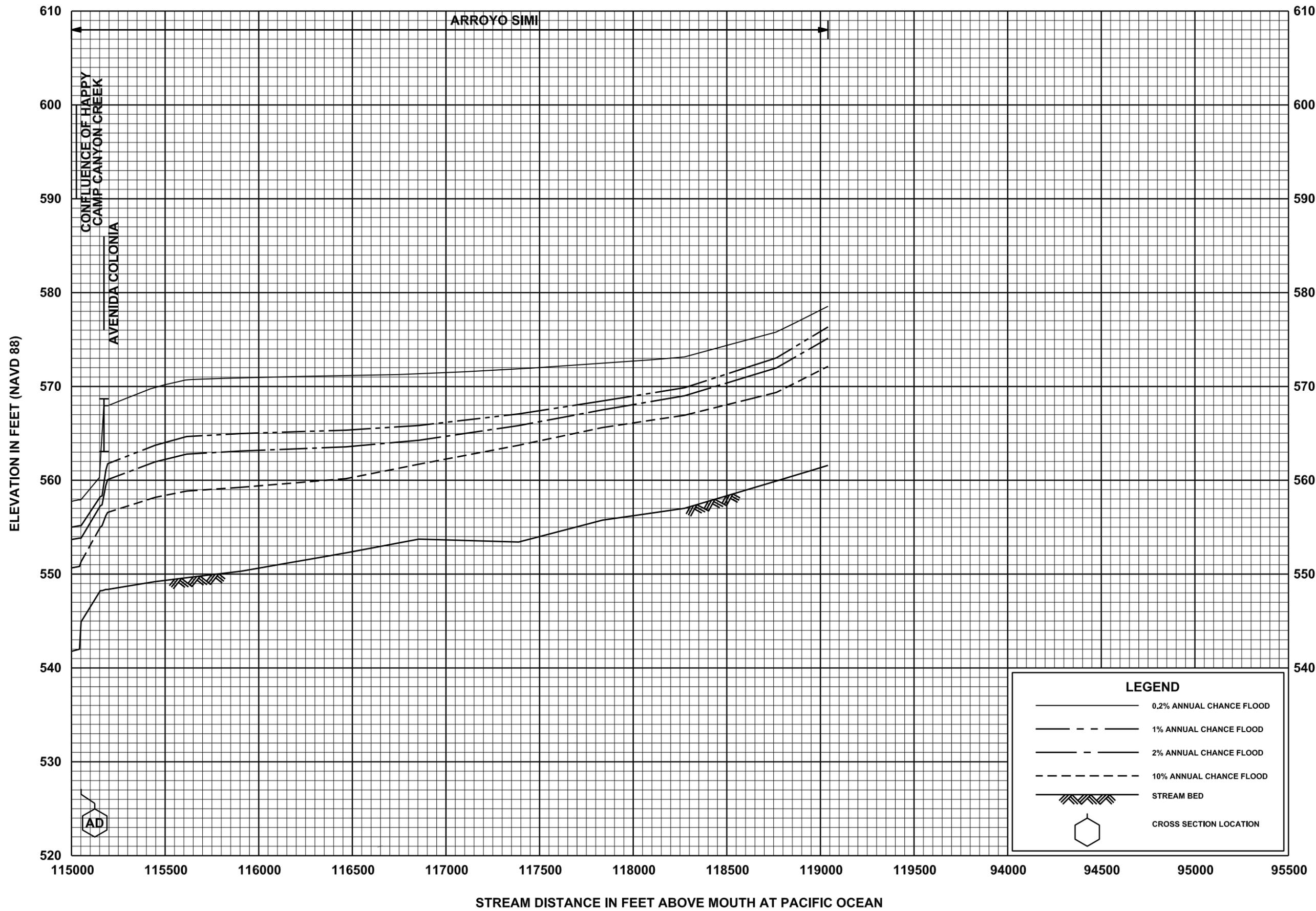


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FEDERAL EMERGENCY MANAGEMENT AGENCY  
**VENTURA COUNTY, CA**  
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**FLOOD PROFILES**

CALLEGUAS CREEK / ARROYO LAS POSAS / ARROYO SIMI

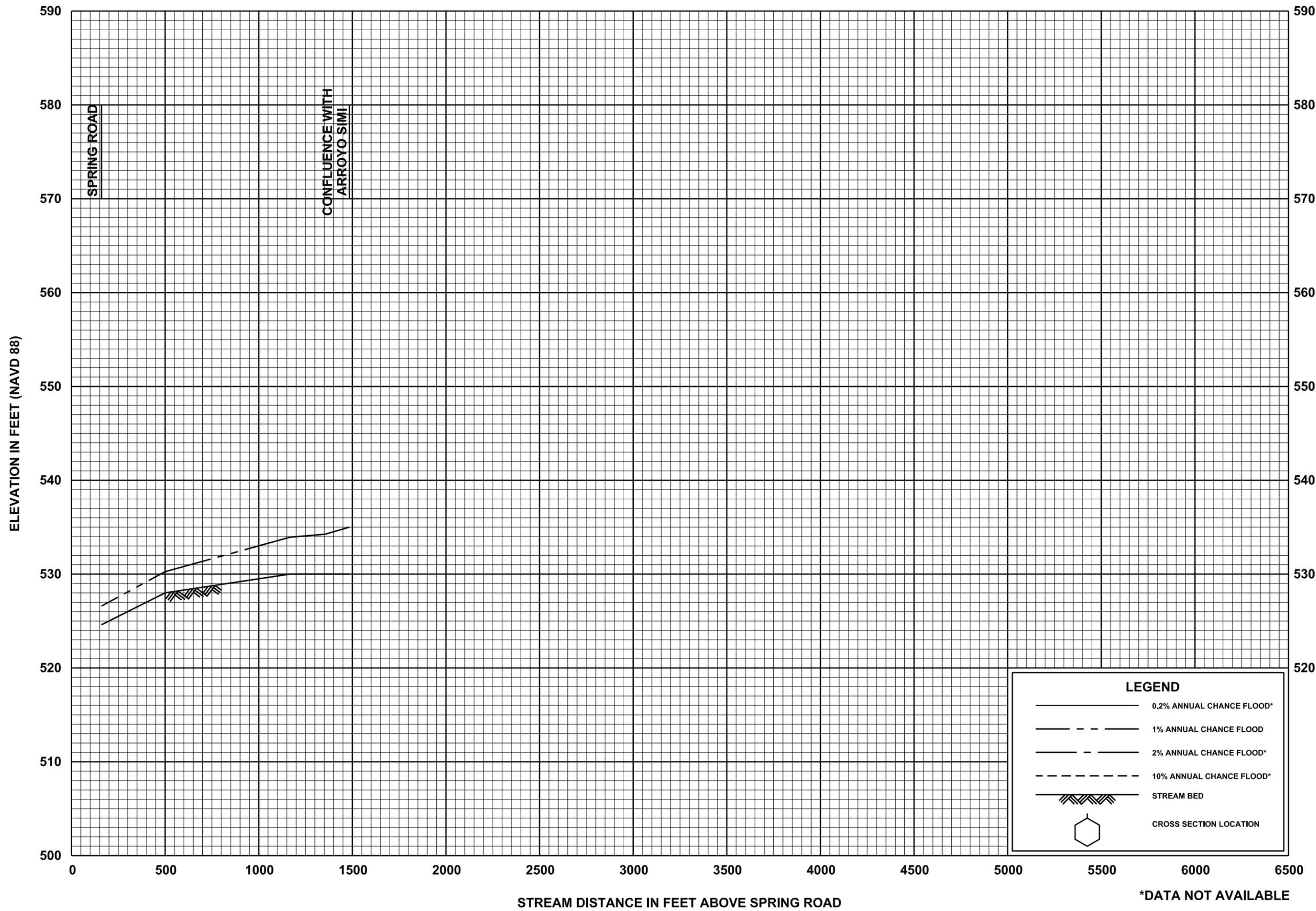


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**FLOOD PROFILES**

CALLEGUAS CREEK / ARROYO LAS POSAS / ARROYO SIMI

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**VENTURA COUNTY, CA**  
AND INCORPORATED AREAS



\*DATA NOT AVAILABLE

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**FLOOD PROFILES**

**ARROYO SIMI OVERFLOW**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**VENTURA COUNTY, CA**  
 AND INCORPORATED AREAS

**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 Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management 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 hydraulic considerations with regard to requirements of the National Flood Insurance 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 jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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 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 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

Spatial Reference System Division  
National Geodetic Survey, NOAA  
Silver Spring Metro Center  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3191

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 U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1994 or later.

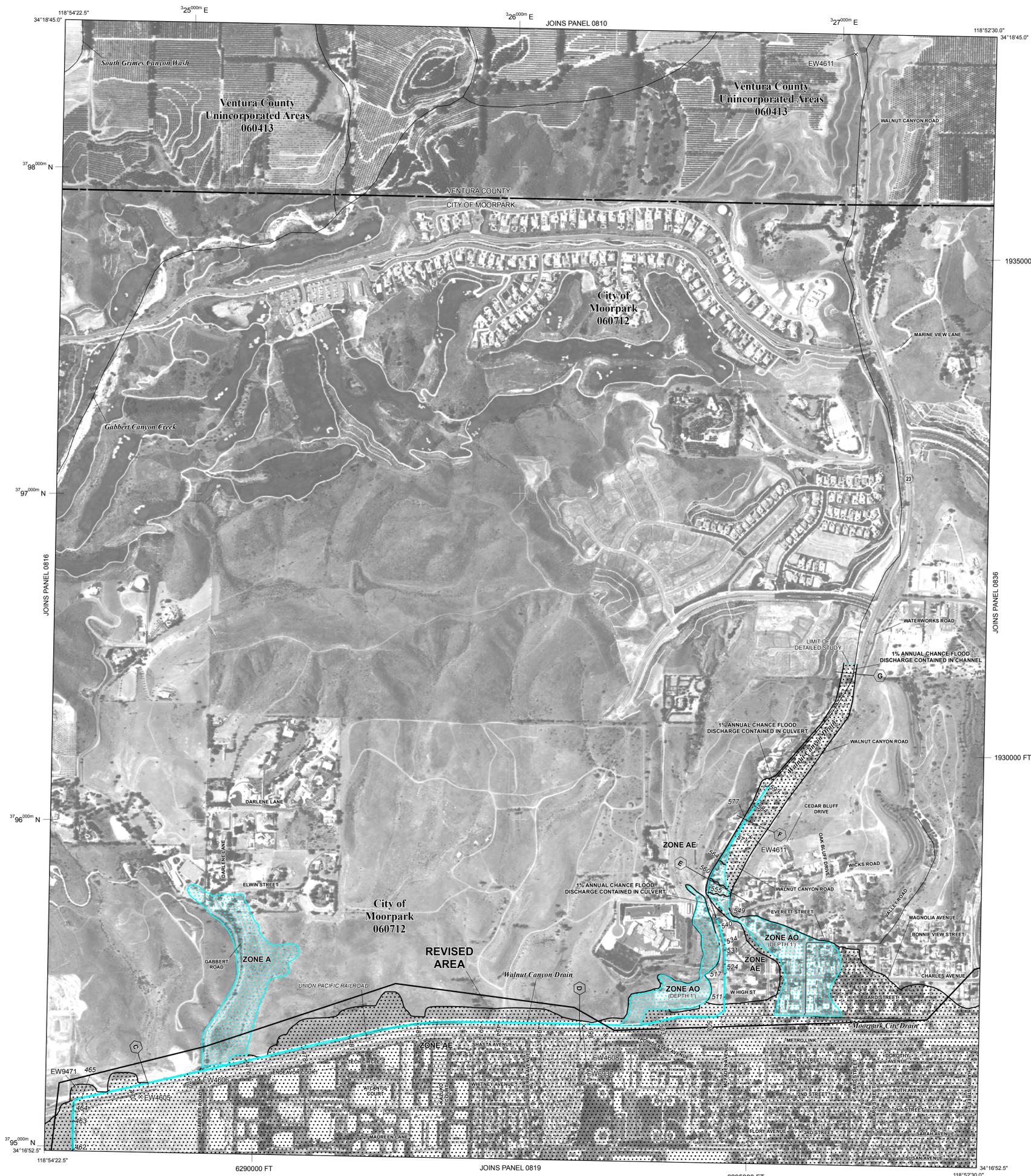
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

**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 map 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 county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

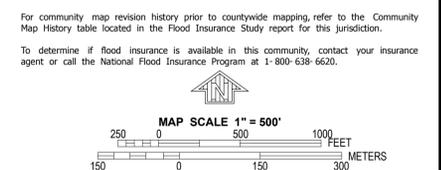
Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.



**LEGEND**

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance 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.
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- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decrefited. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS
- ZONE X** 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.
- OTHER AREAS
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
- OTHERWISE PROTECTED AREAS (OPAs)
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet\*
- Base Flood Elevation value where uniform within zone; elevation in feet\*
- \* Referenced to the North American Vertical Datum of 1988 (NAVD 88)
- Cross section line
- Transsect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
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- 5000-foot grid ticks: California State Plane coordinate system, V zone (FPSZONE 0405), Lambert Conformal Conic
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORIES  
Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
January 20, 2010
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0817E**

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**VENTURA COUNTY,**  
**CALIFORNIA**  
**AND INCORPORATED AREAS**

**PANEL 817 OF 1275**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
VENTURA COUNTY	060413	0817	E
MOORPARK, CITY OF	060712	0817	E

**REVISED TO REFLECT LOMR EFFECTIVE: June 13, 2011**

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**  
06111C0817E

**EFFECTIVE DATE**  
JANUARY 20, 2010

**Federal Emergency Management Agency**

**NOTES TO USERS**

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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 National Flood Insurance 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 jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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Silver Spring Metro Center  
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Silver Spring, Maryland 20910  
(301) 713-3191

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/>.

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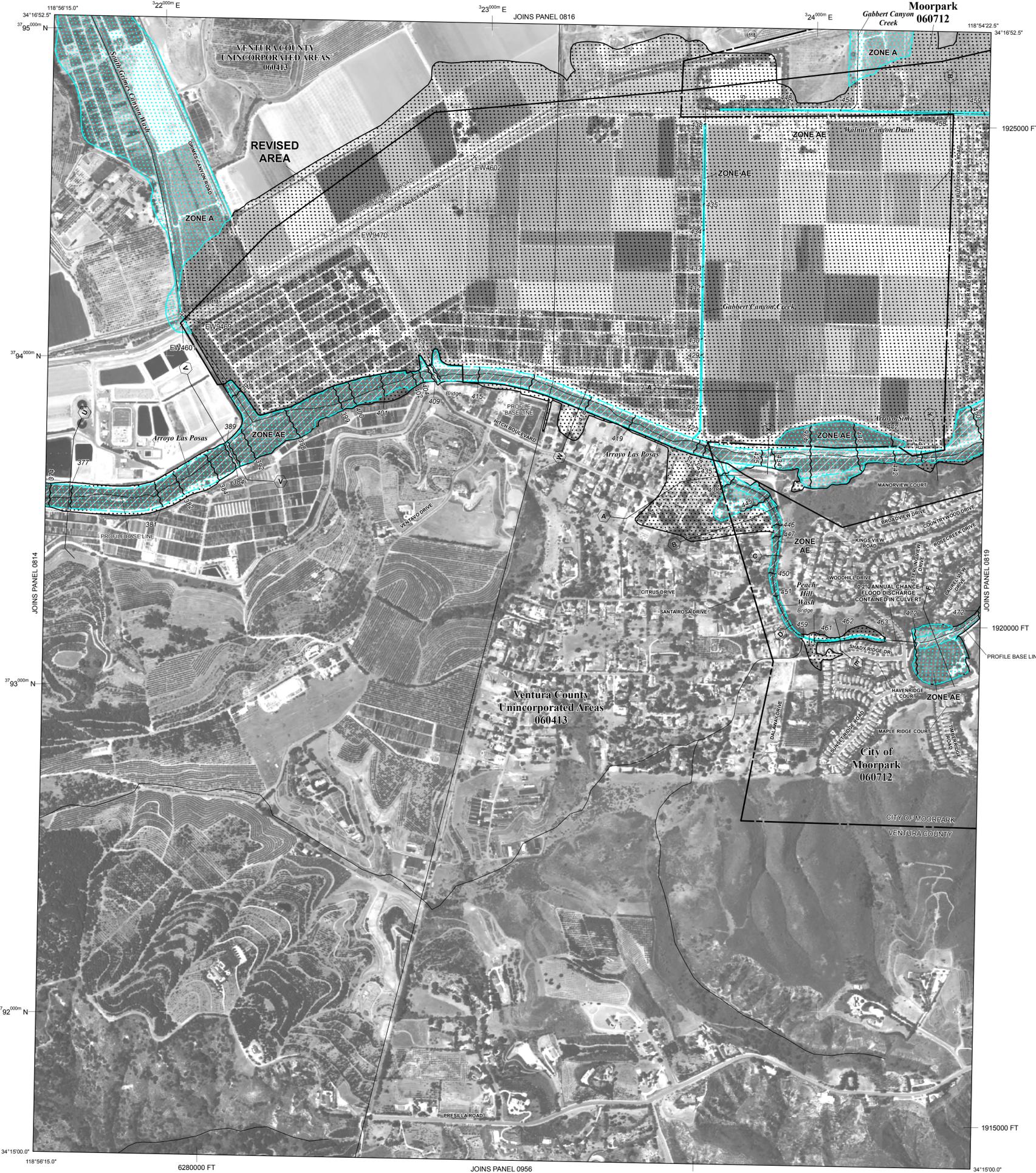
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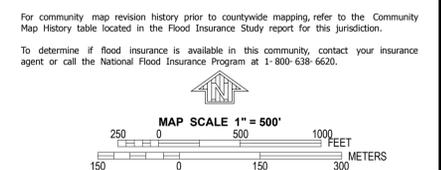
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**LEGEND**

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- 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.
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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.
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Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
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Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V**  
Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE**  
Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE
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- ZONE X**  
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.
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- ZONE X**  
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- Cross section line
- Transsect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
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- 5000-foot grid ticks: California State Plane coordinate system, V zone (FPSZONE 0405), Lambert Conformal Conic
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORIES  
Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
January 20, 2010
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0818E**

**FIRM**  
FLOOD INSURANCE RATE MAP  
VENTURA COUNTY,  
CALIFORNIA  
AND INCORPORATED AREAS

PANEL 818 OF 1275  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	VENTURA COUNTY	060413	0818	E
	MOORPARK, CITY OF	060712	0818	E

REVISED TO REFLECT LOMR  
EFFECTIVE: June 13, 2011

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**  
06111C0818E

**EFFECTIVE DATE**  
JANUARY 20, 2010

Federal Emergency Management Agency

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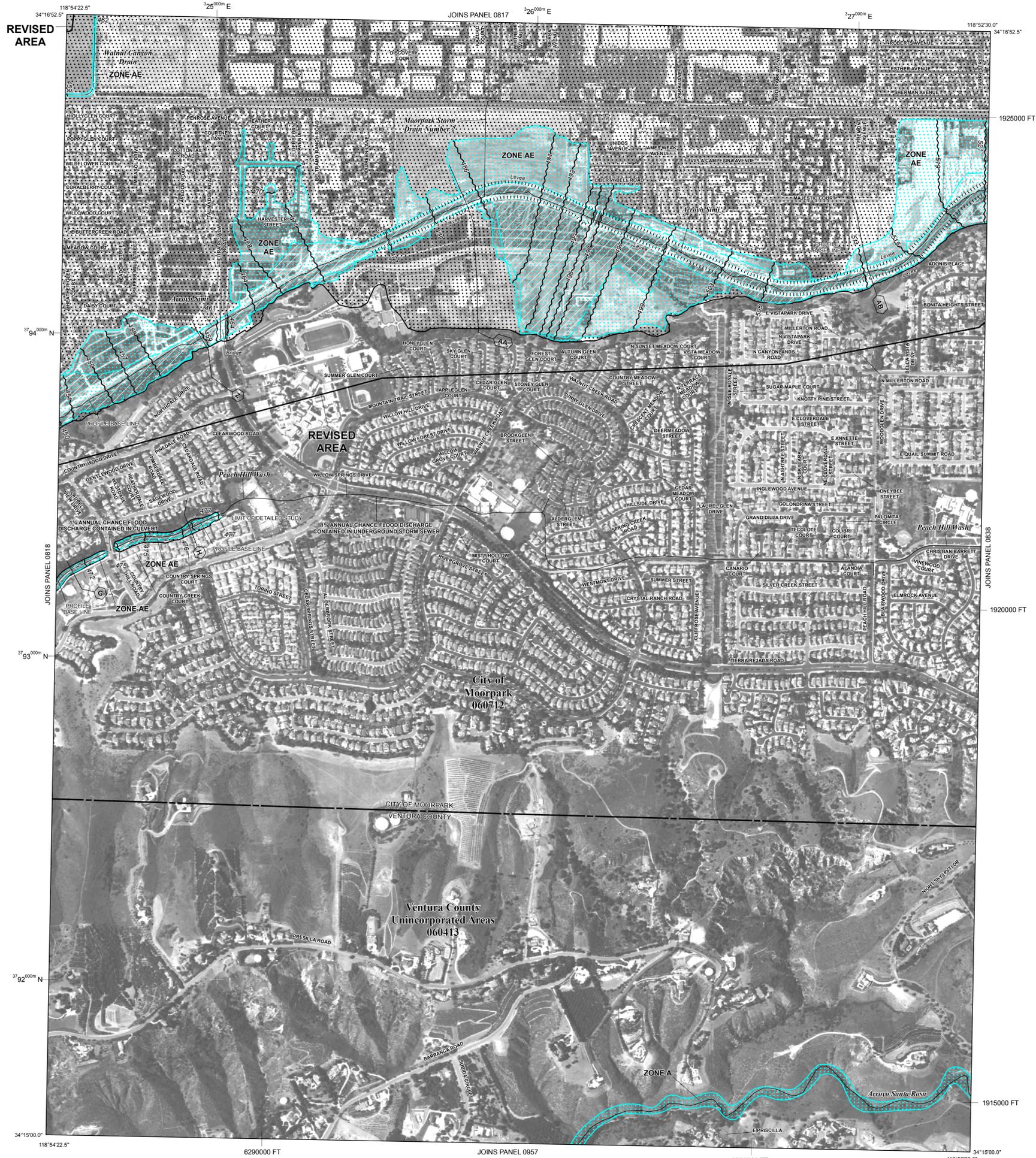
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**REVISED AREA**

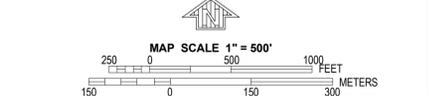


**LEGEND**

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- River Mile
- MAP REPOSITORIES
- Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP: January 20, 2010
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:

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.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0819E**

**FIRM**  
FLOOD INSURANCE RATE MAP  
VENTURA COUNTY,  
CALIFORNIA  
AND INCORPORATED AREAS

PANEL 819 OF 1275  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	VENTURA COUNTY	060413	0819	E
	MOORPARK, CITY OF	060712	0819	E

**REVISED TO REFLECT LOMR**  
EFFECTIVE: June 13, 2011

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**MAP NUMBER**  
06111C0819E  
**EFFECTIVE DATE**  
JANUARY 20, 2010

**Federal Emergency Management Agency**

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**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

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**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

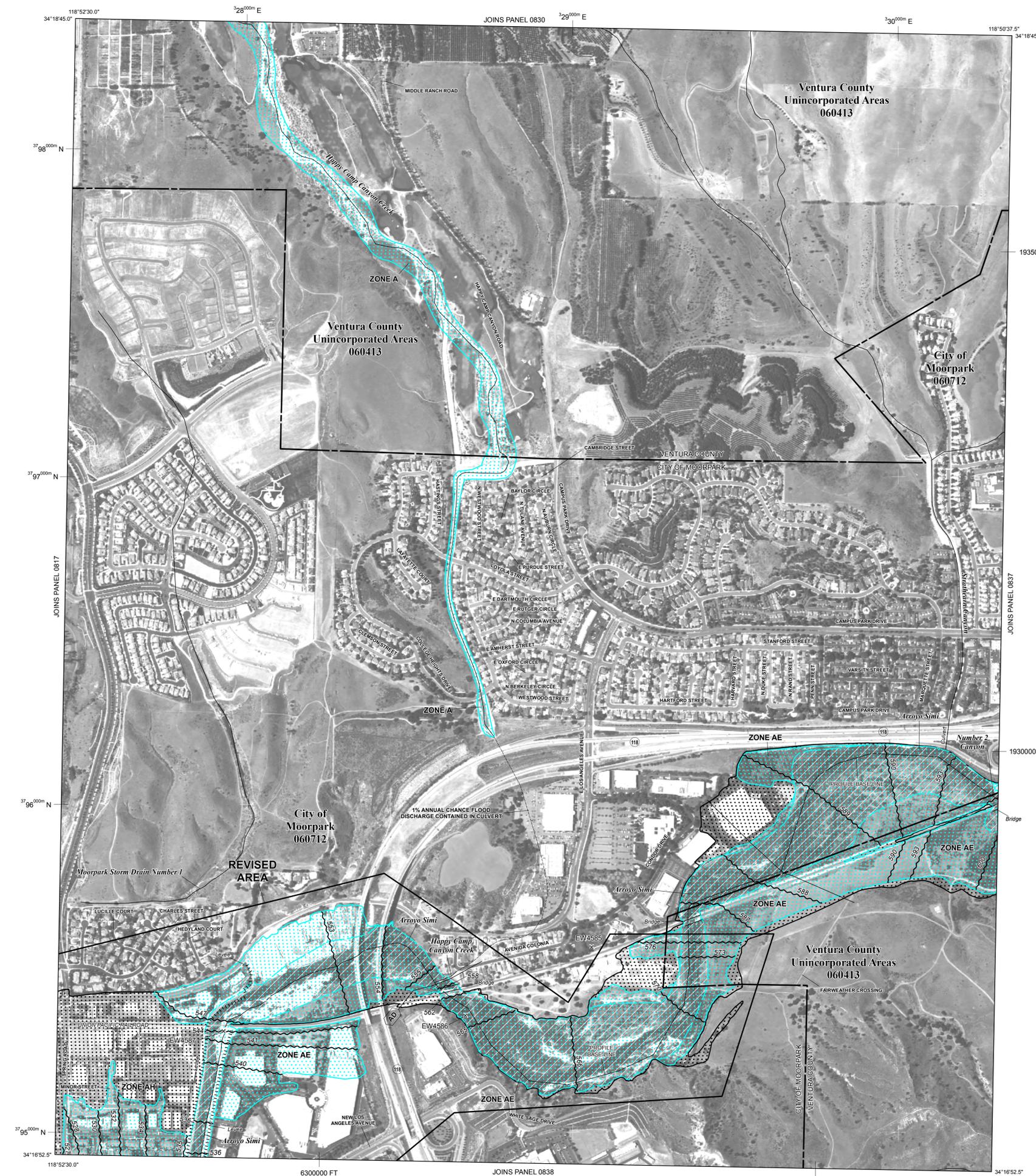
1% annual chance floodplain boundary  
0.2% annual chance floodplain boundary  
Floodway boundary  
Zone D boundary  
CBRS and OPA boundary  
Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.  
Base Flood Elevation line and value; elevation in feet\*  
Base Flood Elevation value where uniform within zone; elevation in feet\*  
\* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

— A — Cross section line  
— 23 — 23 — Transsect line  
97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)  
4975000 N 1000-meter Universal Transverse Mercator grid ticks, zone 11  
6000000 FT 5000-foot grid ticks: California State Plane coordinate system, V zone (FPSZONE 0405), Lambert Conformal Conic  
DX5510 × Bench mark (see explanation in Notes to Users section of this FIRM panel)  
M1.5 River Mile  
MAP REPOSITORIES  
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP: January 20, 2010  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:

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.  
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'  
250 0 500 1000 FEET  
150 0 150 300 METERS



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0836E**

**FIRM FLOOD INSURANCE RATE MAP VENTURA COUNTY, CALIFORNIA AND INCORPORATED AREAS**

**PANEL 836 OF 1275**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
VENTURA COUNTY	060413	0836	E
MOORPARK, CITY OF	060712	0836	E

**REVISED TO REFLECT LOMR EFFECTIVE: June 13, 2011**

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 06111C0836E**  
**EFFECTIVE DATE JANUARY 20, 2010**

**Federal Emergency Management Agency**

