

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 3 OF 6



LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
LOS ANGELES COUNTY UNINCORPORATED AREAS	065043	CLAREMONT, CITY OF*	060109
AGOURA HILLS, CITY OF	065072	COMMERCE, CITY OF	060110
ALHAMBRA, CITY OF*	060095	COMPTON, CITY OF	060111
ARCADIA, CITY OF	065014	COVINA, CITY OF*	065024
ARTESIA, CITY OF*	060097	CUDAHY, CITY OF	060657
AVALON, CITY OF	060098	CULVER CITY, CITY OF	060114
AZUSA, CITY OF	065015	DIAMOND BAR, CITY OF	060741
BALDWIN PARK, CITY OF*	060100	DOWNEY, CITY OF	060645
BELL, CITY OF*	060101	DUARTE, CITY OF*	065026
BELL GARDENS, CITY OF	060656	EL MONTE, CITY OF*	060658
BELLFLOWER, CITY OF	060102	EL SEGUNDO, CITY OF	060118
BEVERLY HILLS, CITY OF*	060655	GARDENA, CITY OF	060119
BRADBURY, CITY OF*	065017	GLENDALE, CITY OF*	065030
BURBANK, CITY OF	065018	GLENDORA, CITY OF*	065031
CALABASAS, CITY OF	060749	HAWAIIAN GARDENS, CITY OF*	065032
CARSON, CITY OF	060107	HAWTHORNE, CITY OF*	060123
CERRITOS, CITY OF	060108	HERMOSA BEACH, CITY OF	060124

*No Special Flood Hazard Areas Identified

PRELIMINARY: March 9, 2016

FLOOD INSURANCE STUDY NUMBER

06037CV003C

Version Number 2.3.3.2



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COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
HIDDEN HILLS, CITY OF	060125	PICO RIVERA, CITY OF	060148
HUNTINGTON PARK, CITY OF*	060126	POMONA, CITY OF*	060149
INDUSTRY, CITY OF*	065035	RANCHO PALOS VERDES, CITY OF*	060464
INGLEWOOD, CITY OF*	065036	REDONDO BEACH, CITY OF	060150
IRWINDALE, CITY OF*	060129	ROLLING HILLS, CITY OF*	060151
LA CANADA FLINTRIDGE, CITY OF*	060669	ROLLING HILLS ESTATES, CITY OF *	065054
LA HABRA HEIGHTS, CITY OF*	060701	ROSEMEAD, CITY OF*	060153
LA MIRADA, CITY OF	060131	SAN DIMAS, CITY OF	060154
LA PUENTE, CITY OF*	065039	SAN FERNANDO, CITY OF*	060628
LA VERNE, CITY OF*	060133	SAN GABRIEL, CITY OF*	065055
LAKEWOOD, CITY OF	060130	SAN MARINO, CITY OF*	065057
LANCASTER, CITY OF	060672	SANTA CLARITA, CITY OF	060729
LAWNDALE, CITY OF*	060134	SANTA FE SPRINGS, CITY OF	060158
LOMITA, CITY OF*	060135	SANTA MONICA, CITY OF	060159
LONG BEACH, CITY OF	060136	SIERRA MADRE, CITY OF*	065059
LOS ANGELES, CITY OF	060137	SIGNAL HILL, CITY OF*	060161
LYNWOOD, CITY OF	060635	SOUTH EL MONTE, CITY OF*	060162
MALIBU, CITY OF	060745	SOUTH GATE, CITY OF	060163
MANHATTAN BEACH, CITY OF	060138	SOUTH PASADENA, CITY OF*	065061
MAYWOOD, CITY OF*	060651	TEMPLE CITY, CITY OF	060653
MONROVIA, CITY OF*	065046	TORRANCE, CITY OF	060165
MONTEBELLO, CITY OF	060141	VERNON, CITY OF*	060166
MONTEREY PARK, CITY OF*	065047	WALNUT, CITY OF*	065069
NORWALK, CITY OF	060652	WEST COVINA, CITY OF	060666
PALMDALE, CITY OF	060144	WEST HOLLYWOOD, CITY OF	060720
PALOS VERDES ESTATES, CITY OF	060145	WESTLAKE VILLAGE, CITY OF	060744
PARAMOUNT, CITY OF	065049	WHITTIER, CITY OF	060169
PASADENA, CITY OF*	065050		

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TABLE OF CONTENTS

Volume 1

	<u>Page</u>
SECTION 1.0 – INTRODUCTION	1
1.1 The National Flood Insurance Program	1
1.2 Purpose of this Flood Insurance Study Report	2
1.3 Jurisdictions Included in the Flood Insurance Study Project	2
1.4 Considerations for using this Flood Insurance Study Report	18
SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS	30
2.1 Floodplain Boundaries	30
2.2 Floodways	64
2.3 Base Flood Elevations	65
2.4 Non-Encroachment Zones	65
2.5 Coastal Flood Hazard Areas	65
2.5.1 Water Elevations and the Effects of Waves	65
2.5.2 Floodplain Boundaries and BFEs for Coastal Areas	67
2.5.3 Coastal High Hazard Areas	68
2.5.4 Limit of Moderate Wave Action	69
SECTION 3.0 – INSURANCE APPLICATIONS	70
3.1 National Flood Insurance Program Insurance Zones	70
3.2 Coastal Barrier Resources System	72
SECTION 4.0 – AREA STUDIED	72
4.1 Basin Description	72
4.2 Principal Flood Problems	73
4.3 Non-Levee Flood Protection Measures	77
4.4 Levees	78
SECTION 5.0 – ENGINEERING METHODS	82
5.1 Hydrologic Analyses	82

Figures

	<u>Page</u>
Figure 1: FIRM Panel Index	20
Figure 2: FIRM Notes to Users	23
Figure 3: Map Legend for FIRM	26
Figure 4: Floodway Schematic	64
Figure 5: Wave Runup Transect Schematic	67
Figure 6: Coastal Transect Schematic	69

Volume 1, Continued

Tables

	<u>Page</u>
Table 1: Listing of NFIP Jurisdictions	2
Table 2: Flooding Sources Included in this FIS Report	31
Table 3: Flood Zone Designations by Community	71
Table 4: Coastal Barrier Resources System Information	72
Table 5: Basin Characteristics	73
Table 6: Principal Flood Problems	74
Table 7: Historic Flooding Elevations	77
Table 8: Non-Levee Flood Protection Measures	78
Table 9: Levees	80

Volume 2

SECTION 5.0 – ENGINEERING METHODS, Continued

5.2	Hydraulic Analyses	119
5.3	Coastal Analyses	151
	5.3.1 Stillwater Elevations	152
	5.3.2 Waves	153
	5.3.3 Coastal Erosion	157
	5.3.4 Wave Hazard Analyses	158
5.4	Alluvial Fan Analyses	159

SECTION 6.0 – MAPPING METHODS

6.1	Vertical and Horizontal Control	159
6.2	Base Map	161
6.3	Floodplain and Floodway Delineation	163

Figures

	<u>Page</u>
Figure 7: Frequency Discharge-Drainage Area Curves	114
Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas	153
Figure 9: Transect Location Map	158

Tables

	<u>Page</u>
Table 10: Summary of Discharges	83
Table 11: Summary of Non-Coastal Stillwater Elevations	115
Table 12: Stream Gage Information used to Determine Discharges	117
Table 13: Summary of Hydrologic and Hydraulic Analyses	120
Table 14: Roughness Coefficients	149
Table 15: Summary of Coastal Analyses	152
Table 16: Tide Gage Analysis Specifics	153
Table 17: Coastal Parameters	158
Table 18: Summary of Alluvial Fan Analyses	159
Table 19: Results of Alluvial Fan Analyses	159

Volume 2, Continued

Tables, Continued

	<u>Page</u>
Table 20: Countywide Vertical Datum Conversion	160
Table 21: Stream-Based Vertical Datum Conversion	160
Table 22: Base Map Sources	162
Table 23: Summary of Topographic Elevation Data used in Mapping	164
Table 24: Floodway Data	166

Volume 3

SECTION 6.0 – MAPPING METHODS, Continued

6.4	Coastal Flood Hazard Mapping	174
6.5	FIRM Revisions	181
6.5.1	Letters of Map Amendment	181
6.5.2	Letters of Map Revision Based on Fill	181
6.5.3	Letters of Map Revision	181
6.5.4	Physical Map Revisions	182
6.5.5	Contracted Restudies	182
6.5.6	Community Map History	183

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION 187

7.1	Contracted Studies	187
7.2	Community Meetings	192

SECTION 8.0 – ADDITIONAL INFORMATION 206

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES 213

Tables

	<u>Page</u>
Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams	174
Table 26: Summary of Coastal Mapping Considerations	175
Table 27: Incorporated Letters of Map Change	182
Table 28: Community Map History	184
Table 29: Summary of Contracted Studies Included in this FIS Report	187
Table 30: Community Meetings	193
Table 31: Map Repositories	206
Table 32: Additional Information	212
Table 33: Bibliography and References	214

Volume 3, Continued

Exhibits

<u>Flood Profiles</u>	<u>Panel</u>
Amargosa Creek	01-03P
Anaverde Creek	04-06P
Avalon Canyon	07-10P
Big Rock Wash	11-12P
Cheseboro Creek	13-15P
Cold Creek	16-21P

Volume 4

Exhibits

<u>Flood Profiles</u>	<u>Panel</u>
Dark Canyon	22-23P
Dry Canyon	24-33P
Escondido Canyon	34-39P
Flow Along Empire Avenue	40P
Flowline No. 1	41P
Garapito Creek	42-44P
Hacienda Creek	45P
Kagel Canyon	46-57P
Lake Street Overflow	58P
La Mirada Creek	59-62P
Las Flores Canyon	63-66P
Las Virgenes Creek	67-76P
INTENTIONALLY LEFT OUT	77P
Liberty Canyon	78-79P
Lindero Canyon above Confluence with Medea Creek	80-81P
Lindero Canyon above Lake Lindero	82-87P
Lindero Canyon spillway at Lindero	88P
Little Rock Wash–Profile A	89-92P
Little Rock Wash–Profile B	93P
Little Rock Wash–Profile C	94P
Lobo Canyon	95-98P
Lockheed Drain Channel	99-102P
Lopez Canyon Channel	103-104P
Los Angeles River Left Overbank Path 2	105-108P
Los Angeles River Right Overbank Path 1	109-111P
Los Angeles River Right Overbank Path 2	112P
Malibu Creek	113-115P

Volume 5

Exhibits

<u>Flood Profiles</u>	<u>Panel</u>
Medea Creek	116-127P
Medea Creek (above Ventura Freeway)	128-129P
Mill Creek	130-134P
North Overflow (A)	135P
North Overflow (B)	136P
Old Topanga Canyon	137-142P
Overflow Area of Lockheed Drain Channel	143P
Overflow Area of Lockheed Storm Drain	144P
Palo Comando Creek	145-150P
Ramirez Canyon	151-156P
Rio Hondo Left Overbank Path 3	157P
Rio Hondo Left Overbank Path 5	158-159P
Rio Hondo Left Overbank Path 6	160P
Rustic Canyon	161-164P
Sand Canyon Creek	165P
Santa Maria Canyon	166P
Stokes Canyon	167-170P
Topanga Canyon	171-195P
Trancas Creek	196P
Triunfo Creek	197-200P
Unnamed Canyon (Serra Retreat Area)	201-202P
Upper Los Angeles River Left Overbank	203P
Weldon Canyon	204-205P

Volume 6

Exhibits

<u>Flood Profiles</u>	<u>Panel</u>
Zuma Canyon	206-213P
Unnamed Stream Main Reach	214-219P
Unnamed Stream Tributary 1	220-221P
Unnamed Stream Tributary 2	222-224P

Published Separately

Flood Insurance Rate Map (FIRM)

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams

[Not Applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified based on the results from the wave hazard analyses.

For the City of Torrance, because there are no existing structures and no likelihood of structures being built in the future below an elevation of 7.9 feet along the Torrance coastline, only an approximate coastal high-hazard area has been shown.

For the remaining areas of Los Angeles County impacted by coastal flooding processes, analyses of the hydraulic characteristics of flooding from oceanic sources were carried out to provide estimates of the elevations of floods of selected recurrence intervals along each of the shorelines. The limit of runup was used to designate flood zones.

In order to obtain runup values for the various flood producing mechanisms, data on offshore bathymetry and beach profiles were obtained from U.S. Coast and Geodetic Survey and National Oceanic and Atmospheric Administration bathymetric charts; USGS topographic maps; surveys of beach profiles conducted by the USACE, Los Angeles District; and from aerial photographs of the study area.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1% annual chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.
- The *wave runup zone* occurs where the (eroded) ground profile is 3.0 feet or more below the 2-percent wave runup elevation.
- The *wave overtopping splash zone* is the area landward of the crest of an overtopped barrier, in cases where the potential 2-percent wave runup exceeds the barrier crest elevation by 3.0 feet or more.
- The *breaking wave height zone* occurs where 3-foot or greater wave heights could occur (this is the area where the wave crest profile is 2.1 feet or more above the total stillwater elevation).

- The *high-velocity flow zone* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv^2) is greater than or equal to $200 \text{ ft}^3/\text{sec}^2$. This zone may only be used on the Pacific Coast.

The SFHA boundary indicates the limit of SFHAs shown on the FIRM as either “V” zones or “A” zones.

Table 26 indicates the coastal analyses used for floodplain mapping.

Table 26: Summary of Coastal Mapping Considerations

Flooding Source and Location	Wave Runup Elevation ¹ (feet)			Wave Setup Elevation ¹ (feet)		
	10% Annual Chance	1% Annual Chance	0.2% Annual Chance	10% Annual Chance	1% Annual Chance	0.2% Annual Chance
PACIFIC OCEAN						
At Will Rogers Beach, Approximately 400 feet South of the Intersection of Tramonto Drive and Porto Marina Way	14.3	19	22.1	*	*	*
At Will Rogers Beach, Approximately 300 feet South of the Intersection of Breve Way and Porta Marina Way	13.4	17.5	20.4	*	*	*
At Will Rogers Beach, at Sunset Boulevard Extended	11.3	13.9	16.5	*	*	*
At Will Rogers Beach at Temescal Canyon Road Extended	10.9	13.3	15.8	*	*	*
At Will Rogers Beach, Approximately 900 feet South of the Intersection of Beirut Avenue and Via De Las Olas	11	13.5	16	*	*	*
At Will Rogers Beach at Entrada Drive Extended	12	15.1	17.8	*	*	*
At Venice Beach at Washington Street Extended	12	15.1	17.8	*	*	*
At Marina Del Ray Entrance Channel and Ballona Creek	*	*	*	7.7	8.9	11.1
At Dockweiler Beach, at Culver Boulevard Extended	11.3	14	16.6	*	*	*
At Dockweiler Beach, at Beaumont Street Extended	11.9	14.9	17.6	*	*	*

Table 26: Summary of Coastal Mapping Considerations, Continued

Flooding Source and Location	Wave Runup Elevation ¹ (feet)			Wave Setup Elevation ¹ (feet)		
	10% Annual Chance	1% Annual Chance	0.2% Annual Chance	10% Annual Chance	1% Annual Chance	0.2% Annual Chance
At Dockweiler Beach, at Fountainbleau Street Extended	12.5	15.9	18.7	*	*	*
At Dockweiler Beach, at Ipswich Street Extended	13.7	18	21	*	*	*
At Dockweiler Beach, Approximately 900 feet Northwest of the Intersection of Imperial Highway and Vista Del Mar	13.1	17.1	19.9	*	*	*
At Dockweiler Beach, Approximately 5,000 feet Northwest of the Corporate Limits	12.8	16.1	18.9	*	*	*
At Dockweiler Beach, Approximately 4,100 feet Northwest of the Corporate Limits	12	15.2	17.9	*	*	*
Along Dockweiler Beach, Approximately 3,400 feet Northwest of the Corporate Limits	11.5	14.2	16.8	*	*	*
Along Dockweiler Beach, Approximately 2,400 feet Northwest of the Corporate Limits	10.9	13.3	15.8	*	*	*
Along Dockweiler Beach, Approximately 1,000 feet Northwest of the Corporate Limits	11.5	14.3	16.9	*	*	*
Along Dockweiler Beach, Approximately 100 feet Northwest of the Corporate Limits	12.1	15.3	18.1	*	*	*
At Corporate Limits, at Royal Palms Beach, Approximately 1,000 feet Northwest of Shad Place Extended	14.1	18.7	21.7	*	*	*
At Royal Palms Beach, at Anchovy Avenue Extended	12.9	16.7	19.5	*	*	*
At Whites Point	12.3	15.7	18.4	*	*	*
At Beach, at Weymouth Avenue Extended	13.5	17.7	20.6	*	*	*

Table 26: Summary of Coastal Mapping Considerations, Continued

Flooding Source and Location	Wave Runup Elevation ¹ (feet)			Wave Setup Elevation ¹ (feet)		
	10% Annual Chance	1% Annual Chance	0.2% Annual Chance	10% Annual Chance	1% Annual Chance	0.2% Annual Chance
At Point Fermin Beach, at Barbara Street Extended	12.3	15.7	18.4	*	*	*
At Point Fermin Beach, at Cabrillo Avenue Extended	13.8	18.2	21.2	*	*	*
Approximately 1,000 feet North of Point Fermin along Beach	17.4	24.7	28.3	*	*	*
At Beach, at Carolina Street Extended	16.5	22.7	26.1	*	*	*
At Beach, at Pacific Avenue Extended	15.5	21	24.3	*	*	*
At Cabrillo Beach, at 40th Street Extended	14.1	18.7	21.7	*	*	*
At Los Angeles Harbor	*	*	*	7.7	8.9	11.1
Catalina Avenue Extended at Beach	7.3	7.9	8.2	*	*	*
Approximately 1,500 feet North of Catalina Avenue Extended along Beach	8.8	10	10.7	*	*	*
At Hamilton Beach	7.9	8.8	9.2	*	*	*
At Sequit Point	11.5	14.3	16.9	*	*	*
At Arroyo Sequit Mouth	10.7	13	15.5	*	*	*
Approximately 800 feet East of Arroyo Sequit Mouth along Beach	11.5	14.3	17	*	*	*
Approximately 800 feet South of the Intersection of Nicholas Beach Road and Pacific Coast Highway	12	15.2	17.8	*	*	*
Approximately 2,400 feet West of Los Alisos Canyon Creek Mouth along Beach	14.3	19	22	*	*	*
At Los Alisos Canyon Creek Mouth	12	15.1	17.8	*	*	*
Approximately 900 feet Southeast of the Intersection of Encinal Canyon Road and Pacific Coast Highway along Beach	12.3	15.7	18.4	*	*	*

Table 26: Summary of Coastal Mapping Considerations, Continued

Flooding Source and Location	Wave Runup Elevation ¹ (feet)			Wave Setup Elevation ¹ (feet)		
	10% Annual Chance	1% Annual Chance	0.2% Annual Chance	10% Annual Chance	1% Annual Chance	0.2% Annual Chance
At Encinal Canyon Creek Mouth	12.9	16.7	19.5	*	*	*
Approximately 250 feet South of the Intersection of Seal Level Drive and Roxanne Beach Road	10.9	13.3	15.8	*	*	*
At Lechuza Point	15.5	20.8	24.3	*	*	*
At Steep Hill Canyon Creek Mouth	13.1	17	19.9	*	*	*
At Trancas Creek	10.9	13.3	15.8	*	*	*
Approximately 200 feet West of Point Dume	12.4	16	18.8	*	*	*
At Point Dume	15.5	20.8	24.3	*	*	*
At Dume Cove, Approximately 500 feet Southeast of the Intersection of Dume Drive and Cliffside Drive	13.1	16.9	19.9	*	*	*
At Dume Cove, Approximately 400 feet South of the Intersection of Fernhill Drive and Cliffside Drive	12.1	15.3	18.1	*	*	*
At Dume Cove, Approximately 750 feet South of the Intersection of Grayfox Street and Cliffside Drive	13.1	16.9	19.9	*	*	*
At Paradise Cove, at Walnut Canyon	12.4	15.8	18.6	*	*	*
At Paradise Cove, Approximately 2,000 feet Northeast of Walnut Canyon Creek Mouth along Beach	15.8	20.8	24.3	*	*	*
At Paradise Cove, at Ramirez Canyon Mouth	11.5	14.3	16.9	*	*	*
At Escondido Beach, at Escondido Canyon Mouth	10.7	12.9	15.5	*	*	*
At Escondido Beach, Approximately 200 feet East of the Intersection of Latigo Shore Place and Latigo Shore Drive	11.5	14.3	16.9	*	*	*

Table 26: Summary of Coastal Mapping Considerations, Continued

Flooding Source and Location	Wave Runup Elevation ¹ (feet)			Wave Setup Elevation ¹ (feet)		
	10% Annual Chance	1% Annual Chance	0.2% Annual Chance	10% Annual Chance	1% Annual Chance	0.2% Annual Chance
Approximately 500 feet West of Solstice Canyon Creek Mouth along Beach	13.9	18.3	21.3	*	*	*
At Solstice Canyon Creek Mouth	12.1	15.3	18.1	*	*	*
At Corral Beach, at Corral Canyon Creek Mouth	11.3	13.9	16.4	*	*	*
At Corral Beach, Approximately 250 feet South of the Intersection of Malibu Road and Pacific Coast Highway	13	16.9	19.6	*	*	*
Approximately 1,500 feet East of Corral Canyon Creek Mouth along Beach	13	16.9	19.6	*	*	*
At Puerco Beach, Approximately 200 feet South of the Intersection of Puerco Canyon Road and Malibu Road	11.3	13.9	16.4	*	*	*
At Puerco Beach, at Puerco Canyon Creek Mouth	13	16.9	19.6	*	*	*
At Amarillo Beach, Approximately 2,200 feet East of Marie Canyon Creek Mouth along Beach	11.3	13.9	16.4	*	*	*
At Amarillo Beach, Approximately 3,000 feet East of Marie Canyon Creek Mouth Along Beach	13	16.9	19.6	*	*	*
Along Dockweiler Beach, Approximately 1,000 feet Northwest of the Corporate Limits	11.3	13.9	16.4	*	*	*
Along Dockweiler Beach, Approximately 100 feet Northwest of the Corporate Limits	10.6	12.8	15.2	7.7	8.9	11.1
At Corporate Limits, at Royal Palms Beach, Approximately 1,000 feet Northwest of Shad Place Extended	11.3	13.9	16.4	*	*	*

Table 26: Summary of Coastal Mapping Considerations, Continued

Flooding Source and Location	Wave Runup Elevation ¹ (feet)			Wave Setup Elevation ¹ (feet)		
	10% Annual Chance	1% Annual Chance	0.2% Annual Chance	10% Annual Chance	1% Annual Chance	0.2% Annual Chance
At Royal Palms Beach, at Anchovy Avenue Extended	11.6	14.5	17.1	*	*	*
At Whites Point	11.4	14.2	16.8	*	*	*
At Beach, at Weymouth Avenue Extended	11.9	14.9	17.6	*	*	*
Along Dockweiler Beach, Approximately 1,000 feet Northwest of the Corporate Limits	11.4	14.1	16.7	*	*	*
Along Dockweiler Beach, Approximately 100 feet Northwest of the Corporate Limits	*	*	*	7.7	8.9	11.1

¹ Average elevations given; elevation may vary within the area cited

* Data not computed

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 31, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit <http://www.fema.gov> and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at www.fema.gov/online-tutorials.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting <http://www.fema.gov> for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at www.fema.gov/online-tutorials.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If

the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <http://www.fema.gov> and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Los Angeles County FIRM are listed in Table 27. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

**Table 27: Incorporated Letters of Map Change
[Not Applicable to this Flood Risk Project]**

6.5.4 Physical Map Revisions

PMRs are an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <http://www.fema.gov> and visit the “Flood Map Revision Processes” section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Los Angeles County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFM) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Los Angeles County FIRMs in countywide format was 09/26/2008.

Table 28: Community Map History

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Agoura Hills, City of	03/04/1986	N/A	N/A	03/04/1986	09/26/2008 08/03/1998 12/18/1986
Alhambra, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Arcadia, City of	09/26/2008	N/A	N/A	09/26/2008	—
Artesia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Avalon, City of	10/08/1976	N/A	N/A	09/29/1978	09/26/2008 11/01/1985
Azusa, City of	09/26/2008	N/A	N/A	09/26/2008	—
Baldwin Park, City of ¹	05/26/1978	N/A	N/A	05/26/1978	09/26/2008
Bell, City of ¹	06/28/1974	N/A	N/A	09/26/2008	—
Bell Gardens, City of	09/26/2008	N/A	N/A	09/26/2008	—
Bellflower, City of	07/06/1998	N/A	N/A	07/06/1998	—
Beverly Hills, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Bradbury, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Burbank, City of	06/26/1971	09/26/1975	N/A	03/16/1981	01/20/1999
Calabasas, City of	12/02/1980	N/A	N/A	09/26/2008	01/06/2016
Carson, City of	07/06/1998	N/A	N/A	07/06/1998	09/26/2008
Cerritos, City of	09/26/2008	N/A	N/A	09/26/2008	—
Claremont, City of ¹	11/20/2000	N/A	N/A	11/20/2000	09/26/2008 07/02/2004
Commerce, City of	09/26/2008	N/A	N/A	09/26/2008	—
Compton, City of	07/06/1998	N/A	N/A	07/06/1998	—
Covina, City of ¹	10/22/1971	N/A	N/A	10/22/1971	—
Cudahy, City of	09/26/2008	N/A	N/A	09/26/2008	—
Culver City, City of	06/28/1974	06/28/1974	09/03/1976 10/31/1975	02/01/1980	
Diamond Bar, City of	09/26/2008	N/A	N/A	09/26/2008	—
Downey, City of	07/06/1998	N/A	N/A	07/06/1998	—
Duarte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
El Monte, City of ¹	06/16/1999	N/A	N/A	06/16/1999	—
El Segundo, City of	09/26/2008	N/A	N/A	09/26/2008	

Table 28: Community Map History, Continued

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Gardena, City of	07/06/1998	N/A	N/A	07/06/1998	
Glendale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Glendora, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Hawaiian Gardens, City of ¹	09/25/1970	09/25/1970	N/A	05/14/1971	—
Hawthorne, City of ¹	12/04/1979	N/A	N/A	12/04/1979	—
Hermosa Beach, City of	09/26/2008	N/A	N/A	09/26/2008	—
Hidden Hills, City of	09/07/1984	N/A	N/A	09/07/1984	01/19/2006 11/21/2001
Huntington Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Industry, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Inglewood, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Irwindale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
La Canada Flintridge, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
La Habra Heights, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
La Mirada, City of	06/28/1974	06/28/1974	12/10/1976 10/10/1975	07/02/1980	—
La Puente, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
La Verne, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Lakewood, City of	07/06/1998	N/A	N/A	07/06/1998	—
Lancaster, City of	09/11/1979	09/11/1979	N/A	01/06/1982	—
Lawndale, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Lomita, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Long Beach, City of	07/26/1974	07/26/1974	07/11/1978	09/15/1983	07/06/1998 02/04/1987
Los Angeles, City of	12/13/1977	12/13/1977	04/08/1980	12/02/1980	07/06/1998
Los Angeles County Unincorporated Areas	07/10/1970	07/10/1970	10/24/1978	12/02/1980	TBD 01/06/2016 09/26/2008 07/06/1998 03/30/1998 11/15/1985
Lynwood, City of	06/28/1974	06/28/1974	11/21/1975	04/15/1980	09/26/2008 07/06/1998

Table 28: Community Map History, Continued

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Malibu, City of	09/26/2008	N/A	N/A	09/26/2008	—
Manhattan Beach, City of	09/26/2008	N/A	N/A	09/26/2008	—
Maywood, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Monrovia, City of ¹	09/26/2008	N/A	N/A	09/26/2008	07/06/1998
Montebello, City of	06/28/1974	06/28/1974	12/19/1975	03/18/1980	09/26/2008
Monterey Park, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Norwalk, City of	09/26/2008	N/A	N/A	09/26/2008	03/30/1998 06/18/1987
Palmdale, City of	10/18/1974	10/18/1974	12/24/1976	01/06/1982	11/21/2001 07/02/2004
Palos Verdes Estates, City of	11/21/2001	N/A	—	11/21/2001	—
Paramount, City of	07/06/1998	N/A	—	07/06/1998	—
Pasadena, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Pico Rivera, City of	07/06/1998	N/A	N/A	07/06/1998	—
Pomona, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Rancho Palos Verdes, City of ¹	09/26/2008	N/A	N/A	09/26/2008	01/06/2016
Redondo Beach, City of	06/28/1974	06/28/1974	05/21/1976	09/15/1983	—
Rolling Hills, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Rolling Hills Estates, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Rosemead, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
San Dimas, City of	06/28/1974	06/28/1974	N/A	04/01/1977	—
San Fernando, City of ¹	02/11/1976	N/A	N/A	02/11/1976	—
San Gabriel, City of ¹	11/27/1970	N/A	N/A	09/26/2008	—
San Marino, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Santa Clarita, City of	10/24/1978	10/24/1978	N/A	09/29/1989	—
Santa Fe Springs, City of	06/28/1974	06/28/1974	10/03/1975	04/15/1980	—
Santa Monica, City of	09/26/2008	N/A	N/A	09/26/2008	—
Sierra Madre, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Signal Hill, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
South El Monte, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
South Gate, City of	07/06/1998	N/A	N/A	07/06/1998	—
South Pasadena, City of ¹	04/14/1972	N/A	N/A	04/14/1972	—

Table 28: Community Map History, Continued

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Temple City, City of	09/26/2008	N/A	N/A	09/26/2008	—
Torrance, City of	08/02/1974	08/02/1974	12/05/1975	12/18/1979	—
Vernon, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
Walnut, City of ¹	09/26/2008	N/A	N/A	09/26/2008	—
West Covina, City of	12/02/2004	N/A	N/A	12/02/2004	—
West Hollywood, City of	06/18/1987	N/A	N/A	06/18/1987	—
Westlake Village, City of	09/26/2008	N/A	N/A	09/26/2008	—
Whittier, City of	06/28/1974	06/28/1974	12/12/1975	01/16/1981	09/26/2008 07/06/1998 03/30/1998 11/15/1985

¹ No Special Flood Hazard Areas Identified

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Acton Canyon	TBD	Los Angeles County Flood Control District (LACFCD)	H-3940	July 2015	Los Angeles County
Agua Dulce Canyon Creek	TBD	LACFCD	H-3940	July 2015	Los Angeles County
Agua Dulce Canyon Creek Lateral	TBD	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 21	August 2008	Los Angeles County
Aliso Canyon Creek	TBD	LACFCD	H-3940	July 2015	Los Angeles County
Ballona Creek watershed	TBD	BakerAECOM	HSFEHQ-D-09-0368	September 2015	City of Los Angeles, Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, Continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bouquet Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	Los Angeles County
Castaic Creek	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Cold Creek	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County
Dark Canyon	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County
Dark Canyon West Branch	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County
Elsmere Canyon Creek	TBD	LACFCD	H-3940	July 2015	City of Santa Clarita
Escondido Canyon	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County, City of Malibu
Haskell Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	Los Angeles County; City of Santa Clarita
Hasley Canyon Creek	TBD	BakerAECOM	H-3940	July 2015	Los Angeles County
Iron Canyon	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Kentucky Springs Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-09-J-0001	July 2015	Los Angeles County
Las Virgenes Creek	01/06/2016	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	August 2010	City of Calabasas; Los Angeles County
Lion Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002		Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, Continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Lobo Canyon	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County
Long Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Mint Canyon Creek	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Mint Canyon Creek Overflow	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Newhall Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
Newhall Creek Left Overbank 2	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Newhall Creek Left Overbank 3	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Newhall Creek Right Overbank 1	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Oak Springs Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Oak Springs Canyon Creek Overflow	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Old Topanga Canyon	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, Continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Pico Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Placerita Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Placerita Creek Overflow	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Plum Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Potrero Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Quigley Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Railroad Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	City of Santa Clarita
Railroad Canyon Creek Left Overbank	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
San Francisquito Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	Los Angeles County; City of Santa Clarita

Table 29: Summary of Contracted Studies Included in this FIS Report, Continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
San Martinez Chiquito Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
San Martinez Grande Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Sand Canyon Creek	TBD	HDR Engineering Inc.	EMF-2003-CO—0045, Task Order 33	February 2010	Los Angeles County; City of Santa Clarita
Santa Clara River	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Santa Maria Canyon	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County
Soledad Canyon	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
South Fork Santa Clara River	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
South Fork Santa Clara River Tributary	TBD	BakerAECOM	HSFEHQ-09-D0368, Task Order HSFE09-09-J-0001	March 2014	City of Santa Clarita
Spade Spring Canyon Creek	TBD	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 33	February 2010	Los Angeles County
Stokes Canyon	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County

Table 29: Summary of Contracted Studies Included in this FIS Report, Continued

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Texas Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Tick Canyon	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Topanga Canyon	TBD	BakerAECOM	HSFEHQ-D-09-0368	October 2015	Los Angeles County; City of Los Angeles
Towsley Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita
Unnamed Stream Main Reach, Tributary 1 and Tributary 2	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 15	February 2010	City of Palos Verdes Estates
Unnamed Stream Tributary 1	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 15	February 2010	City of Palos Verdes Estates
Unnamed Stream Tributary 2	01/06/2016	HDR Engineering Inc.	EMF-2003-CO-0045, Task Order 15	February 2010	City of Palos Verdes Estates
Vasquez Canyon	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County
Whitney Canyon Creek	TBD	BakerAECOM	HSFEHQ-09-D-0368, Task Order HSFE09-10-J-0002	July 2015	Los Angeles County; City of Santa Clarita

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 30: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Agoura Hills, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Alhambra, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Arcadia, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Artesia, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Avalon, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Azusa, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Baldwin Park, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Bell, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bell Gardens, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bellflower, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Beverly Hills, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Bradbury, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Burbank, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Calabasas, City of	01/06/2016	03/10/2011	Initial CCO	Representatives of the City, FEMA, LAFCD, FEMA Region IX, and BakerAECOM
		08/05/2014	Final CCO	Representatives of the City, LAFCD, FEMA Region IX, and BakerAECOM

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Carson, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Cerritos, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Claremont, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Commerce, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Compton, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Covina, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Cudahy, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Culver City, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Diamond Bar, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Downey, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Duarte, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
El Monte, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
El Segundo, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Gardena, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Glendale, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Glendora, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Hawaiian Gardens, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Hawthorne, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Hermosa Beach, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Hidden Hills, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Huntington Park, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Industry, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Inglewood, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Irwindale, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Canada Flintridge, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Habra Heights, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
La Mirada, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
La Puente, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
La Verne, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lakewood, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lancaster, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Lawndale, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Lomita, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Long Beach, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Los Angeles, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Los Angeles County Unincorporated Areas	Pending	04/05/2011	Initial CCO	Representatives of FEMA, the County, and the study contractor
		5/21/2013	Flood Risk Review	Representatives of FEMA, the County, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Lynwood, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Malibu, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Manhattan Beach, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Maywood, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Monrovia, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Montebello, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Monterey Park, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Norwalk, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Palmdale, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Norwalk, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Palmdale, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Palos Verdes Estates, City of	1/6/2016	07/28/2009	Initial CCO	Representatives of the City and FEMA
		08/05/2014	Final CCO	Representatives of the City, FEMA Region IX, and BakerAECOM
Paramount, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Pasadena, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Pico Rivera, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Pomona, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Rancho Palos Verdes, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Redondo Beech, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Rolling Hills, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Rolling Hills Estates, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Rosemead, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
San Dimas, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Fernando, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
San Gabriel, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
San Marino, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Santa Clarita, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Santa Fe Springs, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Santa Monica, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Sierra Madre, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Signal Hill, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South El Monte, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South Gate, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
South Pasadena, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Temple City, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Torrance, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

Table 30: Community Meetings, Continued

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Vernon, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Walnut, City of ¹	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
West Covina, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
West Hollywood, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, the City, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, the City, and the study contractor
Westlake Village, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor
Whittier, City of	9/26/2008	05/12/2005	Initial CCO	Representatives of FEMA, and the study contractor
		11/16/2006	Final CCO	Representatives of FEMA, and the study contractor

¹ No Special Flood Hazard Areas Identified

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <http://www.fema.gov>.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Los Angeles County, California and Incorporated Areas, (FEMA 2008 and 2016).

Table 31 is a list of the locations where FIRMs for Los Angeles County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 31: Map Repositories

Community	Address	City	State	Zip Code
Agoura Hills, City of	Planning Department 30001 Ladyface Court	Agoura Hills	CA	91301
Alhambra, City of ¹	City Hall 111 South First Street	Alhambra	CA	91801
Arcadia, City of	Planning Department 240 West Huntington Drive	Arcadia	CA	91066
Artesia, City of ¹	City Hall 18747 Clarkdale Avenue	Artesia	CA	90701
Avalon, City of	Planning and Building Department 410 Avalon Canyon Road	Avalon	CA	90704
Azusa, City of	Public Works Department 213 East Foothill Road	Azusa	CA	91702
Baldwin Park, City of ¹	Public Works Department 14403 East Pacific Avenue	Baldwin Park	CA	91706
Bell, City of ¹	City Hall 6330 Pine Avenue	Bell	CA	90201
Bell Gardens, City of	Public Works Department 8372 South Garfield Avenue	Bell Gardens	CA	90201
Bellflower, City of	Planning Department 16600 Civic Center Drive	Bellflower	CA	90706

Table 31: Map Repositories, Continued

Community	Address	City	State	Zip Code
Beverly Hills, City of ¹	Community Development Planning Division 455 North Rexford Drive Suite 100	Beverly Hills	CA	90210
Bradbury, City of ¹	City Hall 600 Winston Avenue	Bradbury	CA	91008
Burbank, City of	Public Works Department 150 North Third Street	Burbank	CA	91502
Calabasas, City of	Public Works Department 100 Civic Center Way	Calabasas	CA	91302
Carson, City of	Public Works Department 701 East Carson Street	Carson	CA	90745
Cerritos, City of	City Hall 18125 Bloomfield Avenue	Cerritos	CA	90703
Claremont, City of ¹	City Hall 207 Harvard Avenue	Claremont	CA	91711
Commerce, City of	City Hall 2535 Commerce Way	Commerce	CA	90040
Compton, City of	City Hall 205 South Willowbrook Avenue	Compton	CA	90220
Covina, City of ¹	Public Works Department 534 North Barranca Avenue	Covina	CA	91723
Cudahy, City of	City Hall 5220 Santa Ana Street	Cudahy	CA	90201
Culver City, City of	City Hall Second Floor 9770 Culver Boulevard	Culver City	CA	90232
Diamond Bar, City of	City Hall 21810 Copley Drive	Diamond Bar	CA	91765
Downey, City of	Public Works Department 11111 Brookshire Avenue	Downey	CA	90241
Duarte, City of ¹	Public Works Department 1600 Huntington Drive	Duarte	CA	91010
El Monte, City of ¹	Public Works Department 11333 Valley Boulevard	El Monte	CA	91731
El Segundo, City of	City Hall 350 Main Street	El Segundo	CA	90245

Table 31: Map Repositories, Continued

Community	Address	City	State	Zip Code
Gardena, City of	Public Works Department 1717 West 162nd Street	Gardena	CA	90247
Glendale, City of ¹	City Hall 613 East Broadway Room 200	Glendale	CA	91206
Glendora, City of ¹	City Hall 116 East Foothill Boulevard	Glendora	CA	91741
Hawaiian Gardens, City of ¹	City Hall 21815 Pioneer Boulevard	Hawaiian Gardens	CA	90716
Hawthorne, City of ¹	City Hall 4455 West 126th Street	Hawthorne	CA	90250
Hermosa Beach, City of	City Hall 1315 Valley Drive	Hermosa Beach	CA	90254
Hidden Hills, City of	City Hall 6165 Spring Valley Road	Hidden Hills	CA	91302
Huntington Park, City of ¹	City Hall 6550 Miles Avenue	Huntington Park	CA	90255
City of Industry, City of ¹	City Hall 15625 East Stafford Street	City of Industry	CA	91744
Inglewood, City of ¹	City Hall One Manchester Boulevard	Inglewood	CA	90301
Irwindale, City of ¹	City Hall 5050 North Irwindale Avenue	Irwindale	CA	91706
La Canada Flintridge, City of ¹	City Hall 1327 Foothill Boulevard	La Canada Flintridge	CA	91011
La Habra Heights, City of ¹	City Hall 1245 North Hacienda Road	La Habra Heights	CA	90631
La Mirada, City of	Public Works Department 15515 Phoebe Avenue	La Mirada	CA	90638
La Puente, City of ¹	City Hall 15900 East Main Street	La Puente	CA	91744
La Verne, City of ¹	City Hall 3660 D Street	La Verne	CA	91750
Lakewood, City of	City Hall 5050 Clark Avenue	Lakewood	CA	90712

Table 31: Map Repositories, Continued

Community	Address	City	State	Zip Code
Lancaster, City of	City Hall 44933 North Fern Avenue	Lancaster	CA	93534
Lawndale, City of ¹	City Hall 14717 Burin Avenue	Lawndale	CA	90260
Lomita, City of ¹	City Hall 24300 Narbonne Avenue	Lomita	CA	90717
Long Beach, City of	City Hall 333 West Ocean Boulevard 9 th Floor	Long Beach	CA	90802
Los Angeles, City of	Dept of Public Works Bureau of Engineering Street Improvement and Stormwater Division 1149 S Broadway Ste 810	Los Angeles	CA	90015
Los Angeles County, Unincorporated Areas	Public Works Headquarters Watershed Management Division 900 South Fremont Avenue	Alhambra	CA	91803
Lynwood, City of	City Hall 11330 Bullis Road	Lynwood	CA	90262
Malibu, City of	City Hall 23825 Stuart Ranch Road	Malibu	CA	90265
Manhattan Beach, City of	Engineering Department 3621 Bell Avenue	Manhattan Beach	CA	90266
Maywood, City of ¹	City Hall 4319 East Slauson Avenue	Maywood	CA	90270
Monrovia, City of ¹	City Hall 415 South Ivy Avenue	Monrovia	CA	91016
Montebello, City of	City Hall 1600 West Beverly Boulevard	Montebello	CA	90640
Monterey Park, City of ¹	City Hall 320 West Newmark Avenue	Monterey Park	CA	91754
Norwalk, City of	Engineering Department 12700 Norwalk Blvd	Norwalk	CA	90651
Palmdale, City of	Development Services Building 38250 North Sierra Highway	Palmdale	CA	93550

Table 31: Map Repositories, Continued

Community	Address	City	State	Zip Code
Palos Verdes Estates, City of	City Hall 340 Palos Verdes Drive West	Palos Verdes Estates	CA	90274
Paramount, City of	Public Works Department 15300 Downey Avenue	Paramount	CA	90723
Pasadena, City of ¹	City Hall 175 North Garfield Avenue	Pasadena	CA	91101
Pico Rivera, City of	Department of Public Works 6615 Passons Boulevard	Pico Rivera	CA	90660
Pomona, City of ¹	City Hall 505 South Garey Avenue	Pomona	CA	91766
Rancho Palos Verdes, City of ¹	City Hall 30940 Hawthorne Boulevard	Rancho Palos Verdes	CA	90275
Redondo Beach, City of	Planning Department 531 North Gertruda Avenue	Redondo Beach	CA	90277
Rolling Hills, City of ¹	Planning Department Two Portugese Bend Road	Rolling Hills	CA	90274
Rolling Hills Estates, City of ¹	Planning Department 4045 Palos Verdes Drive North	Rolling Hills Estates	CA	90274
Rosemead, City of ¹	City Hall 8838 East Valley Boulevard	Rosemead	CA	91770
San Dimas, City of	Public Works Department 245 East Bonita Avenue	San Dimas	CA	91773
San Fernando, City of ¹	Public Works Department 117 North Macneil Street	San Fernando	CA	91340
San Gabriel, City of ¹	City Hall 425 South Mission Drive	San Gabriel	CA	91776
San Marino, City of ¹	City Hall 2200 Huntington Drive	San Marino	CA	91108
Santa Clarita, City of	Public Works Department 23920 Valencia Boulevard Suite 300	Santa Clarita	CA	91355

Table 31: Map Repositories, Continued

Community	Address	City	State	Zip Code
Santa Fe Springs, City of	Department of Public Works 11710 East Telegraph Road	Santa Fe Springs	CA	90670
Santa Monica, City of	Department of Public Works 1685 Main Street	Santa Monica	CA	90401
Sierra Madre, City of ¹	City Hall 232 West Sierra Madre Boulevard	Sierra Madre	CA	91024
Signal Hill, City of ¹	Engineering Department 2175 Cherry Avenue	Signal Hill	CA	90755
South El Monte, City of ¹	Engineering Division 1415 Santa Anita Avenue	South El Monte	CA	91733
South Gate, City of	8650 California Avenue	South Gate	CA	90280
South Pasadena, City of ¹	Public Works - Engineering 1414 Mission Street	South Pasadena	CA	91030
Temple City, City of	Engineering Department 9701 Las Tunas Drive	Temple City	CA	91780
Torrance, City of	Community Development 3031 Torrance Boulevard	Torrance	CA	90503
Vernon, City of ¹	Public Works Department 4305 South Santa Fe Avenue	Vernon	CA	90058
Walnut, City of ¹	Department of Public Works 398 Lemon Creek Drive Suite E	Walnut	CA	91789
West Covina, City of	Public Works Department 1444 West Garvey Avenue	West Covina	CA	91790
West Hollywood, City of	Public Works Department 8300 Santa Monica Boulevard	West Hollywood	CA	90069
Westlake Village, City of	Engineering Department 31200 Oak Crest Drive	Westlake Village	CA	91361
Whittier, City of	Public Works Department 13230 Penn Street	Whittier	CA	90602

¹ No Special Flood Hazard Areas Identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the State NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of State and local GIS data in their state.

Table 32: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region IX	Federal Emergency Management Agency, 1111 Broadway, Suite 1200, Oakland, CA 94607-4052 (510) 627-7006
Other Federal Agencies	
USGS website	http://www.usgs.gov
Hydraulic Engineering Center website	http://www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	James Eto California Department of Water Resources 3464 El Camino Avenue Suite 200 Sacramento, CA 95821 916-574-1409 jeto@water.ca.gov
State GIS Coordinator	David Harris Agency Information Officer California Resources Agency 1416 Ninth Street, Room 1311 Sacramento, CA 95814 Phone: 916-445-5088 david.harris@resources.ca.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 33: Bibliography and References

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
1977		<i>Topographic Map, Flood Plain Mapping Antelope Valley, Scale 1:6,000, Contour Interval 10 feet</i>			1977	
Abrams Aerial Survey Corporation, 1978	Abrams Aerial Survey Corporation	Aerial Photographs and Topographic Maps, Hermosa Beach, Redondo Beach, and King Harbor, Los Angeles County, California, Scale 1:4,800, Contour Interval 2 feet		City of Lansing, MI	October 1978	City of Lansing library
Agoura Hills	City of Agoura Hills	Agoura Hills Draft General Plans		City of Agoura Hills, CA	undated	City of Agoura Hills library
Agoura Hills, 1993	City of Agoura Hills	"As-Built" Conditions Hydraulic Analysis for Medea Creek in Morrison Ranch		City of Agoura Hills, CA	December 6, 1993	City of Agoura Hills library
Analytical Surveys, Inc., 1988	Analytical Surveys, Inc.	City of Burbank Topographic Mapping, Scale 1"=100', Contour Interval 2 feet		City of Burbank, CA	May 1988	City of Burbank library
Aqua Terra Consultants, 2009	Aqua Terra Consultants	Hydrologic Modeling of the Santa Clara River Watershed with the U.S. EPA Hydrologic Simulation Program – FORTRAN (HSPF)		Aqua Terra Consultants	November 25, 2009	http://www.aquaterra.com/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Bellflower, 1991	City of Bellflower Chamber of Commerce			City of Bellflower, CA	July 1991	
Biola College	Biola College Campus	<i>Aerial Topographic Map, Scale 1:1200, Contour Interval 1 foot</i>		Biola College	1965	http://www.biola.edu/
Burbank, 1975	City of Burbank	Base Map, Scale 1:12,000		City of Burbank, CA	1975	City of Burbank library
Burbank, 1991	City of Burbank	Grading Drainage Plan, Tract Number 48473		City of Burbank, CA	March 1991	City of Burbank library
California, 1968	State of California, Department of Public Works	Golden State Freeway and Sierra Highway Interchange Storm Drains, Contract No. 07-068324, Scale 1:600 (Horizontal) and 1:120 (Vertical)		State of California, Department of Public Works	April 1968	http://www.dir.ca.gov/Public-Works/PublicWorks.html
California Coastal Commission, 1978	California Coastal Commission	<i>Wave Damage Along the California Coast, Winter 1977-78, California Tomorrow Environmental Intern Program</i>	Howe, Steve	California Coastal Commission	December 11, 1978	http://www.coastal.ca.gov/
California Geology, 1981	California Geology	<i>California Geology</i> , "Tsunamis," pp. 58-61	Pierzinski, Diane	California Geology	March 1981	http://redirect.conservation.ca.gov/CGS/information/calgeology/index.asp
California Geology, 1979	California Geology	<i>California Geology</i> , "Accelerated Beach-Cliff Erosion Related to Unusual Storms in Southern California"	Kuhn, G.G. & Shephard, F.P.	California Geology	March 1979	http://redirect.conservation.ca.gov/CGS/information/calgeology/index.asp

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Caltrans, 1966	State of California, Division of Highways	Aerial Survey Contract No. 821, 07-LA-1, Downstream Malibu Creek, Scale 1: 1,200, Contour Interval 5 feet		State of California, Division of Highways	1966	http://www.dot.ca.gov/
Caltrans, 1967	State of California, Division of Highways	Aerial Survey Contract No. 827, 07-LA/YEN-64, Scale 1: 1,200, Contour Interval 5 feet		State of California, Division of Highways	1967	http://www.dot.ca.gov/
Caltrans, 1969	State of California, Division of Highways	Aerial Survey Contract No. 695, 07-LA-1, Las Virgenes Creek, Scale 1: 1,200, Contour Interval 5 feet		State of California, Division of Highways	1969	http://www.dot.ca.gov/
Caltrans, 1987	California Department of Transportation	As Built Plans for Bridges Crossing the Los Angeles River: Interstate 1, 10, 101, 91, 105 (under construction), 405, and 710		City of Madera, CA	1987	http://www.dot.ca.gov/
Coastal Engineering, 1980	Coastal Engineering	"Hurricane Eloise Spectra"	Lee, Y.K.	Coastal Engineering	1980	http://www.coastalengineeringcompany.com/
DWR, 1986	California Department of Water Resources	Short Duration, Precipitation Frequency Data		Department of Water Resources	1986	http://www.water.ca.gov/
DWR, 1990	California Department of Water Resources	FEMA Maps for Palmdale Area		Department of Water Resources	April 1990	http://www.water.ca.gov/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Los Angeles, California</i>		Washington D.C.	unpublished	FEMA Map Service Center http://msc.fema.gov
FEMA	Federal Emergency Management Agency	<i>Flood Insurance Study, Los Angeles County, California (Unincorporated Areas)</i>		Washington D.C.	unpublished	FEMA Map Service Center http://msc.fema.gov
FEMA, 1976	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Redondo Beach, California</i>		Washington D.C.	1976	FEMA Map Service Center http://msc.fema.gov
FEMA, 1978	Federal Emergency Management Agency	<i>Flood Insurance Study, San Bernardino County, California (Unincorporated Areas)</i>		Washington D.C.	1978	FEMA Map Service Center http://msc.fema.gov
FEMA, 1978	Federal Emergency Management Agency	<i>Flood Insurance Study, City of San Dimas, California</i>		Washington D.C.	1978	FEMA Map Service Center http://msc.fema.gov
FEMA, 1979	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Lynwood, California</i>		Washington D.C.	1979	FEMA Map Service Center http://msc.fema.gov
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Burbank, California</i>		Washington D.C.	1980	FEMA Map Service Center http://msc.fema.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Culver City, California</i>		Washington D.C.	1980	FEMA Map Service Center http://msc.fema.gov
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of La Mirada, California</i>		Washington D.C.	1980	FEMA Map Service Center http://msc.fema.gov
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Los Angeles, Los Angeles County, California</i>		Washington D.C.	September 1980	FEMA Map Service Center http://msc.fema.gov
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Los Angeles, Los Angeles County, California</i>		Washington D.C.	December 1980	FEMA Map Service Center http://msc.fema.gov
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Lynwood, California</i>		Washington D.C.	1980	FEMA Map Service Center http://msc.fema.gov
FEMA, 1980	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Montebello, California</i>		Washington D.C.	1980	FEMA Map Service Center http://msc.fema.gov
FEMA, 1981	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Whittier, California</i>		Washington D.C.	1981	FEMA Map Service Center http://msc.fema.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA, 1982	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Lancaster, California</i>		Washington D.C.	1982	FEMA Map Service Center http://msc.fema.gov
FEMA, 1982	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Palmdale, California</i>		Washington D.C.	1982	FEMA Map Service Center http://msc.fema.gov
FEMA 1983	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Long Beach, California</i>		Washington D.C.	1983	FEMA Map Service Center http://msc.fema.gov
FEMA 1984	Federal Emergency Management Agency	<i>Coastal Flood Frequency in Southern California</i>	Donald M. Thomas, Dames & Moore	Washington D.C.	July 1984	FEMA Map Service Center http://msc.fema.gov
FEMA, 1985	Federal Emergency Management Agency	<i>Flood Insurance Study, Los Angeles County, California (Unincorporated Areas)</i>		Washington D.C.	November 15, 1985	FEMA Map Service Center http://msc.fema.gov
FEMA, 1986	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Agoura Hills, Los Angeles County, California</i>		Washington D.C.	March 4, 1986; Revised December 18, 1986	FEMA Map Service Center http://msc.fema.gov
FEMA, 1989	Federal Emergency Management Agency	<i>Flood Insurance Study, Ventura County, California (Unincorporated Areas)</i>		Washington D.C.	January 1989	FEMA Map Service Center http://msc.fema.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA, 1990	Federal Emergency Management Agency	<i>Flood Insurance Study, Ventura County, California (Unincorporated Areas)</i>		Washington D.C.	September 28, 1990	FEMA Map Service Center http://msc.fema.gov
FEMA, 1994	Federal Emergency Management Agency	<i>National Flood Insurance Program and Related Regulations</i>		Washington D.C.	October 1, 1994	FEMA Map Service Center http://msc.fema.gov
FEMA, 1999	Federal Emergency Management Agency	<i>Flood Insurance Study, City of Burbank, California</i>		Washington D.C.	January 20, 1999	FEMA Map Service Center http://msc.fema.gov
FIA, 1975	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Burbank, Los Angeles County, California, Scale 1:12,000</i>		Washington, D.C.	September 26, 1975	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1975	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Santa Fe Springs, California, Scale 1:12,000</i>		Washington, D.C.	June 28, 1974; Revised October 3, 1975	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FIA, 1975	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Torrance, California, Scale 1:12,000</i>		Washington, D.C.	December 5, 1975	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1975	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Whittier, California, Scale 1:12,000</i>		Washington, D.C.	December 12, 1975	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1976	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Avalon, California, Scale 1:12,000</i>		Washington, D.C.	1976	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1976	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Culver City, California, Scale 1:1,000</i>		Washington, D.C.	September 3, 1976	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FIA, 1976	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of La Mirada, California, Scale 1:12,000</i>		Washington, D.C.	December 10, 1976	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1976	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, City of Redondo Beach, Los Angeles County, California, Scale 1:12,000</i>		Washington, D.C.	June 1974; Revised May 1976	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1977	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of Fullerton, California</i>		Washington, D.C.	July 1977	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration
FIA, 1978	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of Avalon, California</i>		Washington, D.C.	March 1978	http://portal.hud.gov/hudportal/HUD?src=/federal_housing_administration

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FIA, 1978	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Hazard Boundary Map, Los Angeles County, California, Scale 1:24,000</i>		Washington, D.C.	October 24, 1978	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FIA, 1979	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of Buena Park, California</i>		Washington, D.C.	February 1979	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FIA, 1979	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of Hawthorne, California</i>		Washington, D.C.	1979	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FIA, 1979	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, Orange County, California (Unincorporated Areas)</i>		Washington, D.C.	September 1979	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FIA, 1979	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of Torrance, California</i>		Washington, D.C.	1979	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FIA, 1980	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of La Habra, California</i>		Washington, D.C.	February 1980	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FIA, 1980	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, Los Angeles County, California (Unincorporated Areas)</i>		Washington D.C.	December 2, 1980	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FIA, 1980	U.S. Department of Housing and Urban Development, Federal Insurance Administration	<i>Flood Insurance Study, City of Santa Fe Springs, California</i>		Washington, D.C.	April 1980	http://portal.hud.gov/hudportal/ HUD?src=/federal_housing_administration
FWA, 1944	Federal Works Agency	Lockheed Storm Drain, Construction Drawing		City of Los Angeles	November 1944	
Hale, Inc., 1979	Hale, Haaland & Associates, Inc.	Hydraulic and Structural Calculations			February 1979	

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Kemmerer, 1977	Kemmerer Engineering Co., Inc.	Plans and Profiles, Las Flores Avenue, Stamy Road to Imperial Highway, Scale 1:4800		Kemmerer Engineering Co., Inc.	October 1977	
La Mirada, 1966	City of La Mirada	Base Map, Scale 1:6,000		City of La Mirada, CA	1966	City of La Mirada library
La Mirada, 1977	City of La Mirada	Topographic Map, Scale 1:1,200, Contour Interval 2 feet: La Mirada Creek Flood Plain		City of La Mirada, CA	1977	City of La Mirada library
LA Times, 1960	Los Angeles Times	article on storm		Los Angeles Times	March 24, 1960	http://www.latimes.com/
LA Times, 1964	Los Angeles Times	article on storm		Los Angeles Times	March 29, 1964	http://www.latimes.com/
LACFD, 1933	Los Angeles County Flood Control District	Flood Overflow Maps - Los Angeles County, California, Scale 1:24,000		Los Angeles County Flood Control District	1933	http://dpw.lacounty.gov/lacfd/
LACFD, 1950	Los Angeles County Flood Control District	Flood Overflow Maps, City of Culver City, California, Developed from USGS 1950 Topographic Map		Los Angeles County Flood Control District		http://dpw.lacounty.gov/lacfd/
LACFD, 1961	Los Angeles County Flood Control District	Kagel Canyon, Topographic Map, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	April 1961; June 1961	http://dpw.lacounty.gov/lacfd/
LACFD, 1963	Los Angeles County Flood Control District	Rustic Canyon, Topographic Map, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	October 1963	http://dpw.lacounty.gov/lacfd/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
LACFD, 1968	Los Angeles County Flood Control District	Topographic Mapping for Lindero Canyon, Scale 1:480, Contour Interval 2 foot		Los Angeles County Flood Control District	1968	http://dpw.lacounty.gov/lacfd/
LACFD, 1968	Los Angeles County Flood Control District	Topographic Mapping for Medea Creek, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	1968	http://dpw.lacounty.gov/lacfd/
LACFD, 1971	Los Angeles County Flood Control District	Hydrology Manual		Los Angeles County Flood Control District	1971	http://dpw.lacounty.gov/lacfd/
LACFD, 1976	Los Angeles County Flood Control District	Survey Field Book, Flood Insurance Studies		Los Angeles County Flood Control District	1976	http://dpw.lacounty.gov/lacfd/
LACFD, 1977	Los Angeles County Flood Control District	<i>Field Book FC-3405</i>		Los Angeles County Flood Control District	November 1977	http://dpw.lacounty.gov/lacfd/
LACFD, 1977	Los Angeles County Flood Control District	<i>Field Book FC-3405, Elevation Reference Marks</i>		Los Angeles County Flood Control District	November 1977	http://dpw.lacounty.gov/lacfd/
LACFD, 1977	Los Angeles County Flood Control District	<i>Field Book FC-3405, Engineering Methodology for Flood Insurance Studies</i>		Los Angeles County Flood Control District	November 1977	http://dpw.lacounty.gov/lacfd/
LACFD, 1978	Los Angeles County Flood Control District	Mill Creek Topographic Map, Scale 1:1,200, Contour Interval 2 feet		Los Angeles County Flood Control District	1978	http://dpw.lacounty.gov/lacfd/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
LACFD, 1978	Los Angeles County Flood Control District	Project No. 8152, Avenue Hsump, Map No. 470-8152-TI, Scale 1:480, Contour Interval 2 feet		Los Angeles County Flood Control District	1978	http://dpw.lacounty.gov/lacfd/
LACFD, 1982	Los Angeles County Flood Control District	Empire and Lockheed System Hydrology Study		Los Angeles County Flood Control District	May 1982	http://dpw.lacounty.gov/lacfd/
LACFD, 1982	Los Angeles County Flood Control District	Hydraulic Analysis of Lockheed Channel		Los Angeles County Flood Control District	August 1982	http://dpw.lacounty.gov/lacfd/
LACFD, 1982	Los Angeles County Flood Control District	Hydrologic Report 1975-77		Los Angeles County Flood Control District	October 1982	http://dpw.lacounty.gov/lacfd/
LACFD, 1983	Los Angeles County Flood Control District	1983 Storm Report		Los Angeles County Flood Control District	June 1983	http://dpw.lacounty.gov/lacfd/
Lockheed Engineering, 1993	Lockheed Engineering and Science Co.	Final Grading and Drainage for Plant B-1		Lockheed Engineering and Science Co.	October 1993	http://www.lockheedmartin.com/
Long Beach 1955	City of Long Beach	Beach-Alamitos Avenue to San Gabriel River		City of Long Beach, CA	1955	City of Long Beach library
Long Beach Harbor, 1977	Long Beach Harbor Department	TP - for Los Angeles and Long Beach Harbors from Primary Tide Station Located at Los Angeles Outer Harbor		City of Long Beach, CA	1977	http://www.polb.com/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Long Beach Independent, 1939	Long Beach Independent (and Long Beach News-Signal)	various articles on storms and waves		Long Beach Independent (and Long Beach News-Signal)	September 26, 1939	http://www.longbeachindependent.com/
Long Beach Press, 1939	Long Beach Press-Telegram	various articles on storms and waves		Long Beach Press-Telegram	September 25, 1939	http://www.presstelegram.com/
Los Angeles	City of Los Angeles	Drainage Maps, Scale 1:4,800, Contour Intervals 5 and 25 feet		City of Los Angeles, CA	updated periodically	City of Los Angeles library
Los Angeles, 1935	City of Los Angeles	Plans and Profile, Weldon Canyon, Scale 1:480 (Horizontal) and 1:48 (Vertical)		City of Los Angeles, CA	October 1935	City of Los Angeles library
Los Angeles, 1967	City of Los Angeles	Topographic Map, Bixby Slough; Between 232nd Street and Anaheim Street, Scale 1:1,200, Contour Interval 2 feet		City of Los Angeles, CA	February 1967	City of Los Angeles library
Los Angeles, 1977	City of Los Angeles	Drainage Maps, Los Angeles, California, Scale 1:12,000		City of Los Angeles, CA	1977	City of Los Angeles library
Los Angeles County, 1955	Los Angeles County, County Engineer	Soil Survey Map of Eastern End of Santa Catalina Island	Santa Catalina Island Company	County of Los Angeles	1955	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Carbon Canyon and Las Flores Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Escondido Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Romero Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1957	Los Angeles County, County Engineer	Topographic Map of Zuma Canyon, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1957	http://www.lacounty.gov/
Los Angeles County, 1964	Los Angeles County, County Engineer	Topographic Map of Topanga Canyon Road et al., Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1964	http://www.lacounty.gov/
Los Angeles County, 1965	Los Angeles County, County Engineer	Topographic Map of Stokes Canyon Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1965	http://www.lacounty.gov/
Los Angeles County, 1965	Los Angeles County, County Engineer	Topographic Map of Stunt Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1965	http://www.lacounty.gov/
Los Angeles County, 1966	Los Angeles County, County Engineer	Topographic Map of Topanga Canyon Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1966	http://www.lacounty.gov/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1967	Los Angeles County, County Engineer	Topographic Map of Corral Canyon Road, Scale 1:2,400, Contour Interval 5 feet		Los Angeles County, CA	1967	http://www.lacounty.gov/
Los Angeles County, 1967	Los Angeles County, County Engineer	Topographic Map of Topanga Road South, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1967	http://www.lacounty.gov/
Los Angeles County, 1969	Los Angeles County, County Engineer	Flood Overflow Maps, North County, Scale 1:24,000, Contour Interval 5 feet, Alpine Butte, California, 1969	County Engineer	Los Angeles County, CA	1969	http://www.lacounty.gov/
Los Angeles County, 1969	Los Angeles County, County Engineer	Flood Overflow Maps, North County, Scale 1:24,000, Contour Interval 5 feet, Lancaster East, California, 1969	County Engineer	Los Angeles County, CA	1969	http://www.lacounty.gov/
Los Angeles County, 1969	Los Angeles County, County Engineer	Flood Overflow Maps, North County, Scale 1:24,000, Contour Interval 5 feet, Lancaster West, California, 1969	County Engineer	Los Angeles County, CA	1969	http://www.lacounty.gov/
Los Angeles County, 1971	Los Angeles County, County Engineer	Topographic Map of Lobe Canyon Road, Scale 1:1,200, Contour Interval 5 feet		Los Angeles County, CA	1971	http://www.lacounty.gov/
Los Angeles County, 1972	Los Angeles County, County Engineer	Topographic Map of Antelope Valley Drainage Study, Scale 1:6,000, Contour Interval 10 feet	County Engineer	Los Angeles County, CA	1972	http://www.lacounty.gov/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1972	Los Angeles County, County Engineer	Topographic Map of Antelope Valley Drainage Study, Scale 1:6,000, Contour Interval 4 feet	County Engineer	Los Angeles County, CA	1972	http://www.lacounty.gov/
Los Angeles County, 1972	Los Angeles County, County Engineer	Topographic Map of Antelope Valley Drainage Study, Scale 1:6,000, Contour Interval 5 feet	County Engineer	Los Angeles County, CA	1972	http://www.lacounty.gov/
Los Angeles County, 1973	Los Angeles County, County Engineer	Rainfall Records - City of Avalon, Gage No. 535 (1947-1973)	Santa Catalina Island Company	County of Los Angeles	1973	http://www.lacounty.gov/
Los Angeles County, 1975	Los Angeles County, County Engineer	Topographic Map of City of Santa Catalina Island, Scale 1:6,000, Contour Interval 10 feet	Santa Catalina Island Company	County of Los Angeles	1975	http://www.lacounty.gov/
Los Angeles County, 1977	Los Angeles County, County Engineer	Topographic Map of Floodplain Mapping - Santa Clarita Valley, Scale 1:6,000, Contour Interval 10 feet	County Engineer	Los Angeles County, CA	1977	http://www.lacounty.gov/
Los Angeles County, 1979	Los Angeles County, County Engineer	Construction Drawings PM 100203, PD No. 1231	County Engineer	Los Angeles County, CA	September 6, 1979	http://www.lacounty.gov/
Los Angeles County, 1979	Los Angeles County, County Engineer	Construction Drawings PM 7982, PD No. 1378	County Engineer	Los Angeles County, CA	August 17, 1979	http://www.lacounty.gov/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Los Angeles County, 1979	Los Angeles County Department of Public Works	Cross Section Field Notes for Medea Creek		Los Angeles County, CA	September 4, 1979	http://dpw.lacounty.gov/
Los Angeles County, 1979	Los Angeles County Department of Public Works	Flood Insurance Study Work Map		Los Angeles County Department of Public Works	September 25, 1979	http://dpw.lacounty.gov/
Los Angeles County, 1987	Los Angeles County Department of Public Works	Antelope Valley Comprehensive Plan of Flood Control and Water Conservation		Los Angeles County Department of Public Works	June 1987	http://dpw.lacounty.gov/
Los Angeles County, 1975	Los Angeles County, Regional Planning Department	North Los Angeles County General Plan		Los Angeles County, CA	1975	http://planning.lacounty.gov/
Maxwell Starkman, 1978	Maxwell Starkman ALA and Associates, J.H. Edwards Company	<i>Grading Plan for Parcel 1, Parcel Map Tor. 66-5 1 PMB 4/89-90, Scale 1:480, Contour Interval 1 foot</i>		Maxwell Starkman ALA and Associates, J.H. Edwards Company	October 26, 1978	
McEwen, 1935	McEwen, C. F.	<i>Destructive High Waves Along the Southern California Coast</i>	McEwen, C. F.		April 1935 Photorevised (1967); Venice, California (1964), Photorevised (1972)	
Montebello, 1958	City of Montebello	Aerial Topographic Maps, Scale 1:1,200 Contour Interval 2 feet		City of Montebello, CA	1958	City of Montebello library

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
NGS	U.S. Department of Commerce, Coast and Geodetic Survey; and National Oceanic and Atmospheric Administration	Bathymetric Charts, California Coastline		NGS, NOAA		http://www.noaa.gov/
NGS, 1941	U.S. Department of Commerce, Coast and Geodetic Survey	<i>Manual of Harmonic Analysis and Prediction of Tides</i> , Special Publication No. 98	Shureman, P.	National Geodetic Survey	1941	http://www.commerce.gov/ http://www.ngs.noaa.gov/
NOAA, 1979	U.S. Department of Commerce, National Oceanic and Atmospheric Administration	Monthly Weather Review		NOAA	1976-1979	http://www.noaa.gov/
Rick Engineering Company, 1985	Rick Engineering Company	<i>Topographic Map of Little Rock Wash, Scale 1"=400' Contour Interval 4 feet</i>		Rick Engineering Company	February 1985	http://www.rickengineering.com/
Santa Catalina Island Company, 1962	Santa Catalina Island Company	Topographic Map of City of Avalon, California, Scale 1:2,400, Contour Intervals 2 and 5 feet		Santa Catalina Island Company	1962	
Santa Fe Springs	City of Santa Fe Springs	Miscellaneous Engineering Drawings of Street Plans and Profiles, various scales		City of Santa Fe Springs, CA	various	City of Santa Fe Springs library

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Scripps, 1980	Scripps Institution of Oceanography	Artificial Sediment Transport and Structures in Coastal Southern California	Shaw, Martha J.	Scripps Institution of Oceanography	December 1980	https://scripps.ucsd.edu/
Simons, 1992	Simons, Li & Associates, Inc.	Design Report, Rehabilitation Concept Plan for Medea Creek in Morrison Ranch	Simons, Li & Associates, Inc.	Simons, Li & Associates, Inc	October 7, 1992	
Tetra Tech, 1979	Tetra Tech, Inc.	Methodology for Computing Coastal Flooding Statistics in Southern California, Report No. TC-3205	Y.K. Lee et al.	Tetra Tech, Inc.	December 1979	www.tetrattech.com
Tetra Tech, 1982	Tetra Tech, Inc.	Methodology for Computing Coastal Flood Statistics in Southern California, Report No. TC-3205		Tetra Tech, Inc.	1982	www.tetrattech.com
UCLA, 1972	University of California, Los Angeles	<i>Some Meteorological Aspects of the Seasonal Distribution of Precipitation in the Western United States and Baja California</i> , Water Resource Center Contribution No. 139	Pyke, C.B.	University of California	October 1972	http://www.universityofcalifornia.edu/
USACE	U.S. Department of the Army, Corps of Engineers	<i>Flood Insurance Study, City of Burbank, California, Preliminary Draft</i>		Washington, D.C.	Unpublished	http://www.usace.army.mil/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1971	U.S. Department of the Army, Corps of Engineers	Santa Clara River and Tributaries, California, Interim Review Report for Flood Control			December 1971	http://www.usace.army.mil/
USACE, 1981	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-1 Flood Hydrograph Package, Generalized Computer Program, User's Manual		Davis, CA	1981	http://www.usace.army.mil/
USACE, 1976	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	Computer Program HEC-2 Water Surface Profiles, Generalized Computer Program		Davis, CA	November 1976	http://www.usace.army.mil/
USACE, 1982	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-5 Simulation of Flood Control and Conservation Systems, User's Manual		Davis, CA	1982	http://www.usace.army.mil/
USACE, 1984	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	Computer Program HEC-2 Water Surface Profiles, Generalized Computer Program		Davis, CA	May 1984	http://www.usace.army.mil/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1985	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-2 Water-Surface Profiles, Generalized Computer Program		Davis, CA	1985	http://www.usace.army.mil/
USACE, 1990	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-1 Flood Hydrograph Package, Generalized Computer Program		Davis, CA	September 1990	http://www.usace.army.mil/
USACE, 1990	U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center	HEC-2 Water-Surface Profiles, Generalized Computer Program		Davis, CA	September 1990	http://www.usace.army.mil/
USACE, 1976	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Hydrology - Antelope Valley Streams			1976, unpublished	http://www.spl.usace.army.mil/
USACE, 1978	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Overflow Maps for Areas along the Los Angeles River		Los Angeles, California	1978	http://www.spl.usace.army.mil/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1987	U.S. Department of the Army, Corps of Engineers, Los Angeles District	As Built Plans for Los Angeles River: Channel and Bridges from Arroyo Seco to Pacific Ocean, 1987, and As Constructed Plans for San Gabriel River Channel from Whittier Narrows Dam to the Pacific Ocean, 1969			1987 and 1969	http://www.spl.usace.army.mil/
USACE, 1987	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Letter of Certification for Middle Reach		Los Angeles, California	September 1987	http://www.spl.usace.army.mil/
USACE, 1987	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Overflow Maps for Areas Along the Los Angeles River		Los Angeles, California	1987	http://www.spl.usace.army.mil/
USACE, 1990	U.S. Department of the Army, Corps of Engineers, Los Angeles District	Los Angeles County Drainage Area Review Draft Feasibility Report, Appendix A		Los Angeles, California	Hydraulic July 1989; Hydrology, February 1990	http://www.spl.usace.army.mil/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USACE, 1978	U.S. Department of the Army, Corps of Engineers, Los Angeles and San Francisco Districts	Winter Storm Damage Along the California Coast	Domurat, George W.		1977-78	http://www.spl.usace.army.mil/
USACE, 1971	U.S. Department of the Army, Corps of Engineers, South Pacific Division	National Shoreline Study; California Regional Inventory			August 1971	http://www.spd.usace.army.mil/
USACE, 1980	U.S. Department of the Army, Corps of Engineers, Waterways Experiment Station	Type 19 Flood Insurance Study: Tsunami Predictions for Southern California, prepared for the Federal Emergency Management Agency	Houston, J.R.	Washington, D.C.	September 1980	http://www.usace.army.mil/
USDA, 1921	U.S. Department of Agriculture, Soil Conservation Service	Reconnaissance Soil Survey of the Central Southern Area, California		U.S. Department of Agriculture, Soil Conservation Service	1921	http://www.nrcs.usda.gov/wps/portal/nrcs/site/national/home/
USDA, 1963	U.S. Department of Agriculture, Soil Conservation Service	Guide for Selecting Roughness coefficient 'n' Values for Channels		Lincoln, NE	December, 1963	http://www.nrcs.usda.gov/wps/portal/nrcs/site/national/home/

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1932	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Orange, California, 1932</i>		Washington, D.C.	1923	http://topomaps.usgs.gov
USGS, 1950	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 25 feet: Malibu Beach, California, 1950</i>		Washington, D.C.	1950	http://topomaps.usgs.gov
USGS 1950	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Thousand Oaks, California, 1950</i>		Washington, D.C.	1950	http://topomaps.usgs.gov
USGS, 1964	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 5 feet, Long Beach, California, 1964</i>		Washington, D.C.	1964	http://topomaps.usgs.gov
USGS, 1964	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Los Alamitos, California, 1964</i>		Washington, D.C.	1964	http://topomaps.usgs.gov
USGS, 1964	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 5 feet, South Gate, California, 1964</i>		Washington, D.C.	1964	http://topomaps.usgs.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1966	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet, Los Angeles, California, 1966</i>		Washington, D.C.	1966	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 25 feet, Calabasas, California, 1952, Photorevised, 1967</i>		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Malibu Beach, California, 1950, Photorevised, 1967</i>		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Point Dume, California, 1950, Photorevised, 1967</i>		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet, Thousand Oaks, California, 1950, Photorevised, 1967</i>		Washington, D.C.	1967	http://topomaps.usgs.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1967	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Topanga, California, 1952, Photorevised, 1967</i>		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1967	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 25 feet: Triunfo Pass, California, 1949, Photorevised, 1967</i>		Washington, D.C.	1967	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Anaheim, California, 1965, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Beverly Hills, California, 1966, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 40 feet, Burbank, California, 1966, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: El Monte, California, 1966 Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Hollywood, California, 1966, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Inglewood, California, 1964, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: La Habra, California, 1964, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Los Alamitos, California, 1964, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov

Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Newport Beach, California, 1965, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Orange, California, 1964, Photorevised, 1972</i>		Washington, D.C.	1974	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Redondo Beach, California, 1963, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Torrance, California, 1964, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1972	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 10 feet: Venice, California, 1964, Photorevised, 1972</i>		Washington, D.C.	1972	http://topomaps.usgs.gov

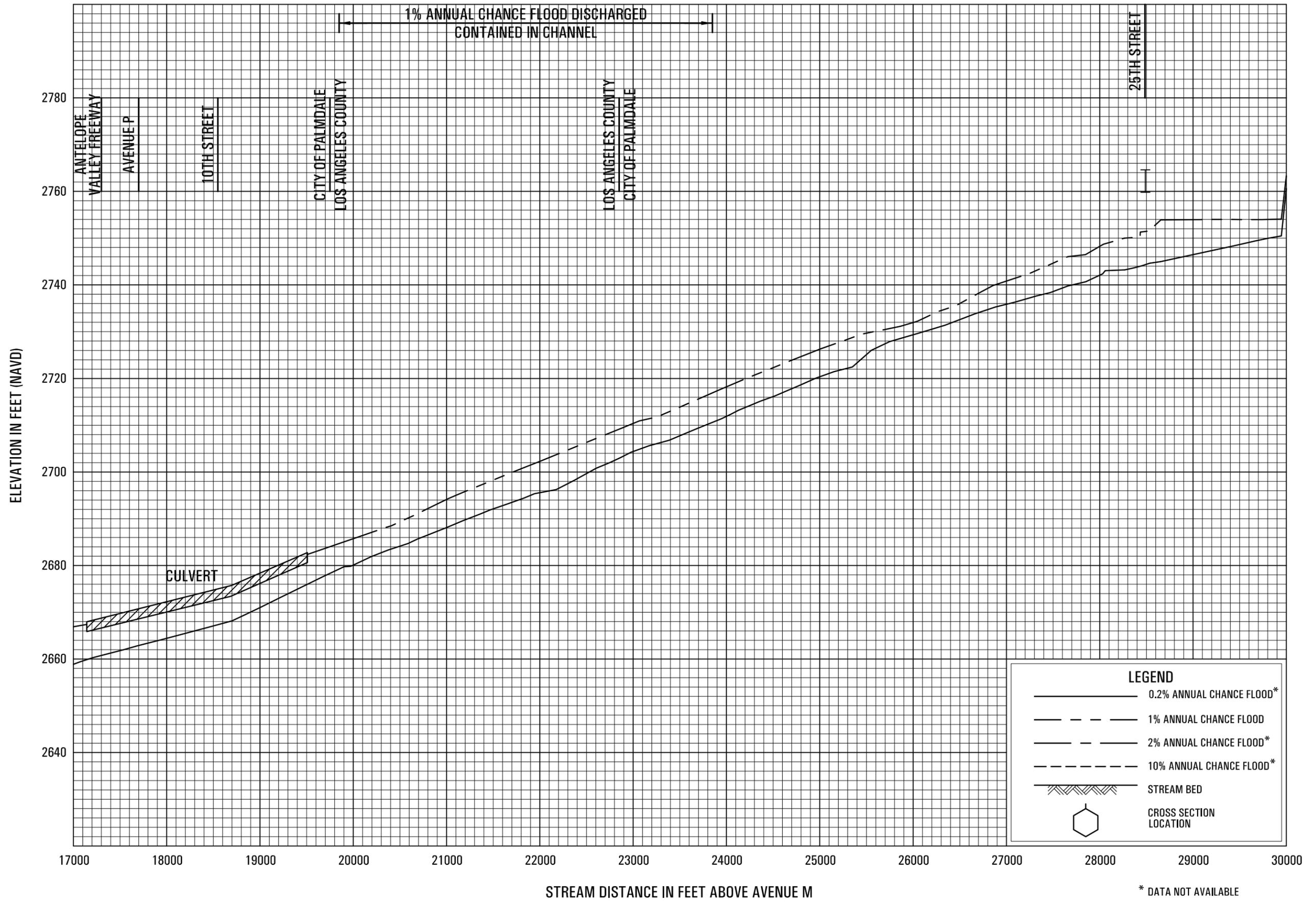
Table 33: Bibliography and References, Continued

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1972	U.S. Department of the Interior, Geological Survey	7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet: Whittier, California, 1965, Photorevised, 1972		Washington, D.C.	1972	http://topomaps.usgs.gov
USGS, 1973	U.S. Department of the Interior, Geological Survey	7.5-Minute Series, Topographic Maps, Scale 1:24,000, Contour Interval 5 feet: Seal Beach, California, 1965, Photorevised, 1973		Washington, D.C.	1973	http://topomaps.usgs.gov
USGS, 1973	U.S. Department of the Interior, Geological Survey	Map of Flood-Prone Areas, Scale 1:24,000, Contour Interval 10 feet, Avalon, California, 1973		Washington, D.C.	1973	http://topomaps.usgs.gov
USGS, 1973	U.S. Department of the Interior, Geological Survey	Map of Flood-Prone Areas, Scale 1:24,000, Contour Interval 10 feet: Santa Catalina Island East, California, 1973		Washington, D.C.	1973	http://topomaps.usgs.gov
USGS, 1977	U.S. Department of the Interior, Geological Survey	<i>Journal of Research</i> , "A Method for Adjusting Values of Manning's Roughness Coefficient for Flooded Urban Areas," Volume 5, Number 5	Hejl Jr., H. R.	City of Lawrence, KS	October 1977	Out of print

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Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USGS, 1977	U.S. Department of the Interior, Geological Survey	<i>Magnitude and Frequency of Floods in California, Water-Resources Investigations 77-21</i>	A. O. Waananen, J. R. Crippen	Washington, D.C.	1977	http://pubs.usgs.gov/wri/wri77-21/
USGS, 1981	U.S. Department of the Interior, Geological Survey	<i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 feet, Thousand Oaks, California, 1950, Photorevised 1981</i>		Washington, D.C.	1981	http://topomaps.usgs.gov
Whittier, 1955	City of Whittier	Metropolitan Topographic Survey, Scale 1:24,000, Contour Interval 5 feet		City of Whittier, CA	1955	City of Whittier library

N/A = Not Available



LEGEND

- 0.2% ANNUAL CHANCE FLOOD*
- - - 1% ANNUAL CHANCE FLOOD
- · - 2% ANNUAL CHANCE FLOOD*
- - - 10% ANNUAL CHANCE FLOOD*
- ▨ STREAM BED
- ⬡ CROSS SECTION LOCATION

* DATA NOT AVAILABLE

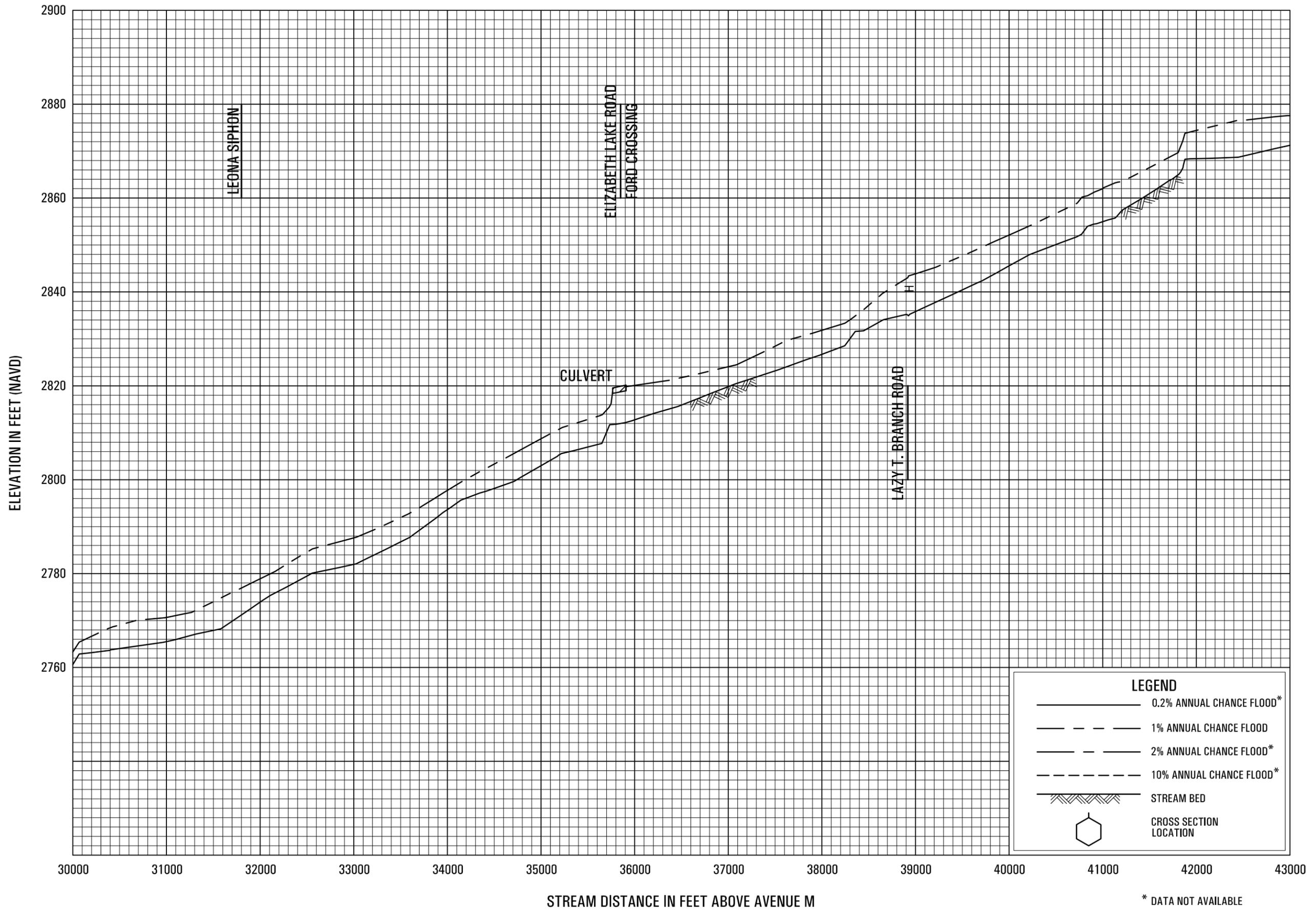
FLOOD PROFILES

AMARGOSA CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

LOS ANGELES COUNTY, CA

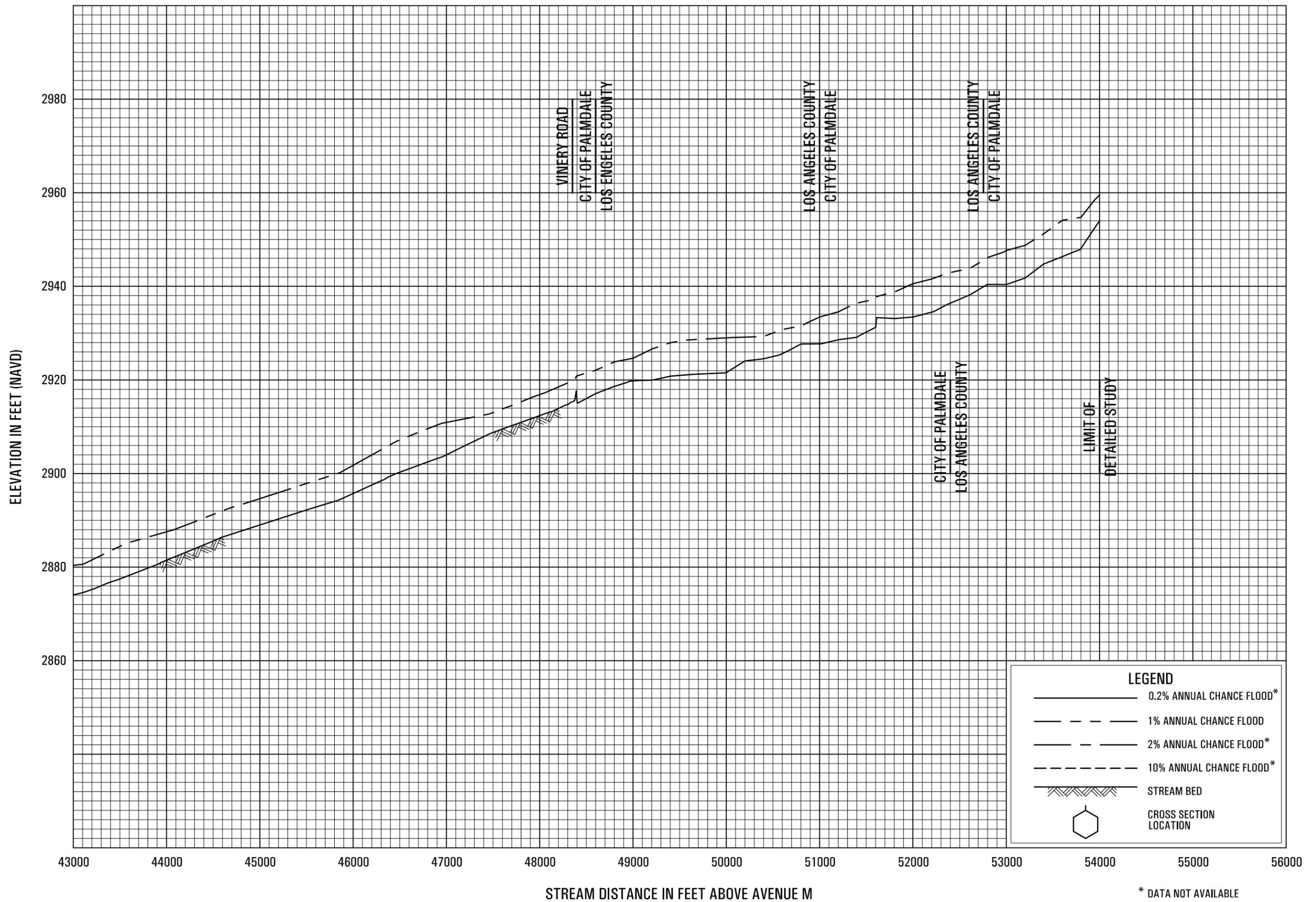
AND INCORPORATED AREAS



FLOOD PROFILES

AMARGOSA CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS**



* DATA NOT AVAILABLE

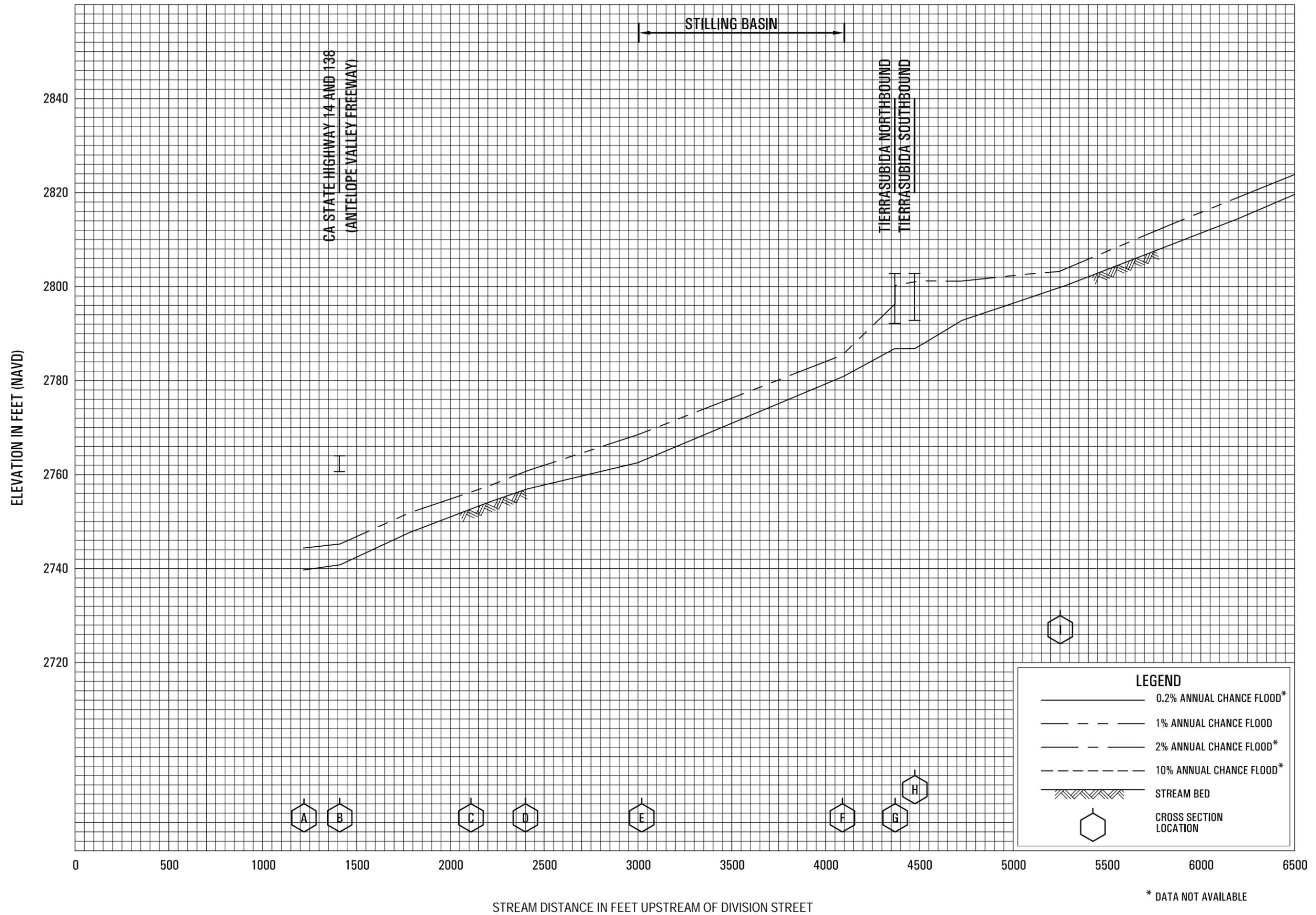
FLOOD PROFILES

AMARGOSA CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

LOS ANGELES COUNTY, CA

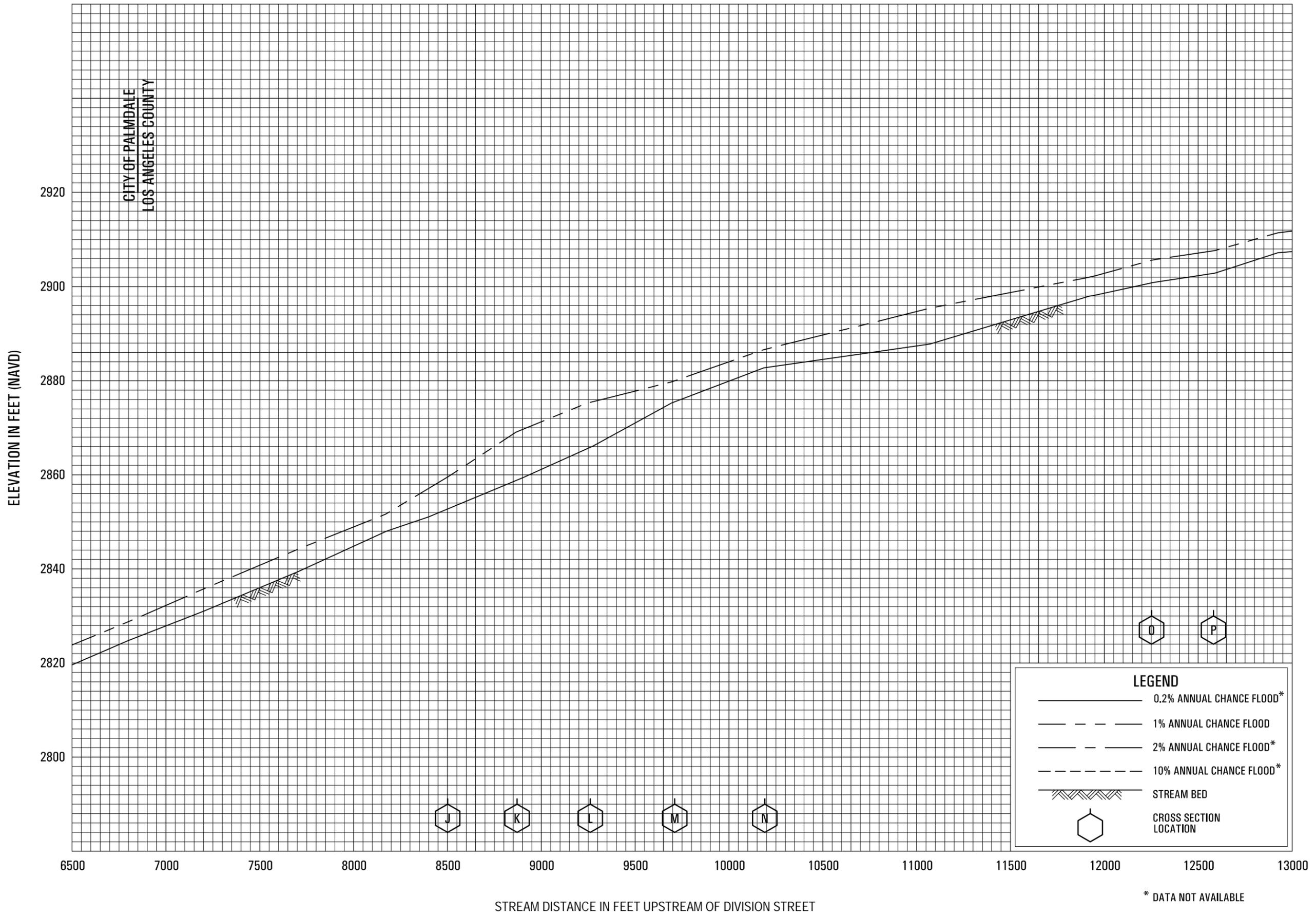
AND INCORPORATED AREAS



FLOOD PROFILES

ANAVERDE CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS



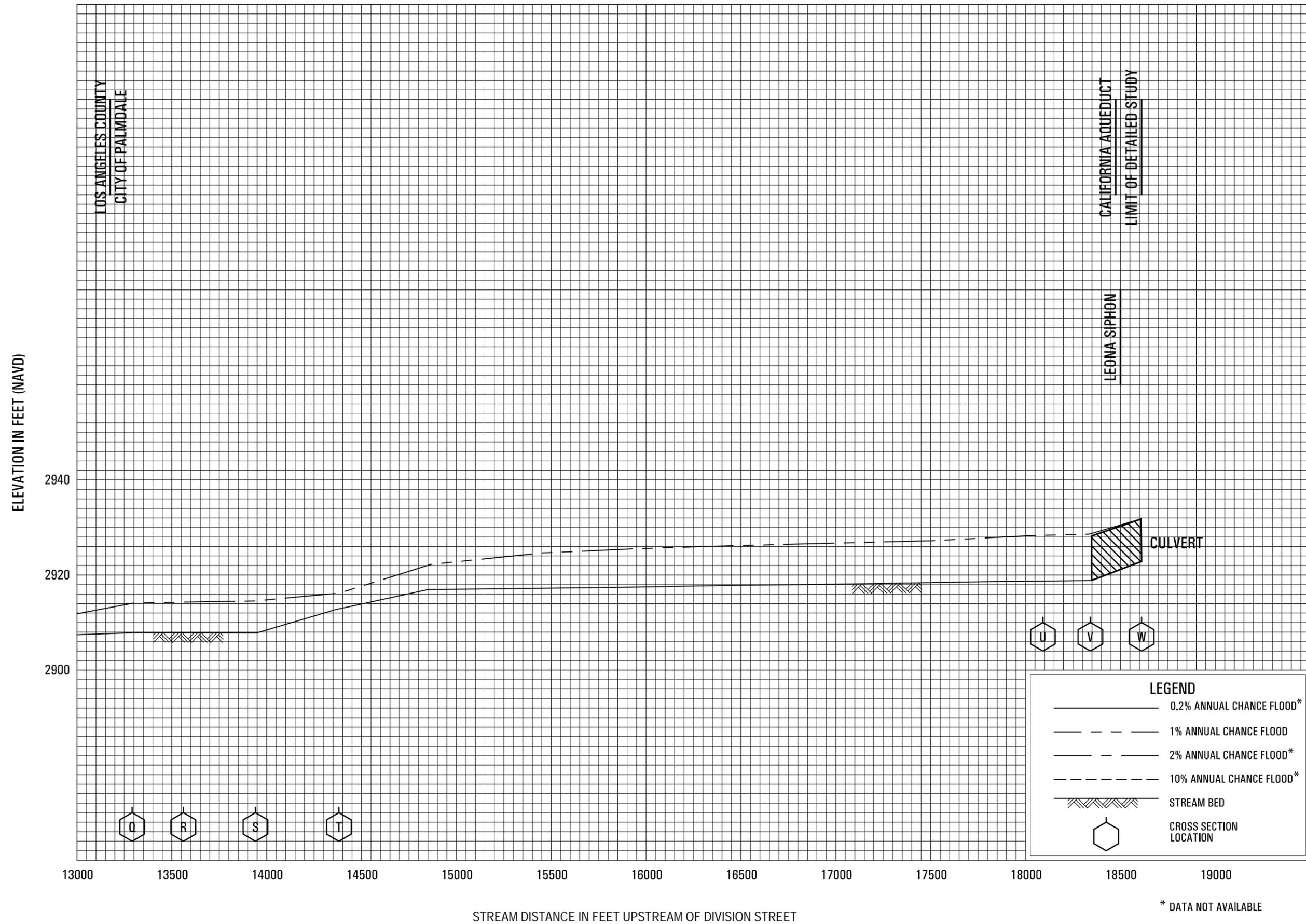
FLOOD PROFILES

ANAVERDE CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

LOS ANGELES COUNTY, CA

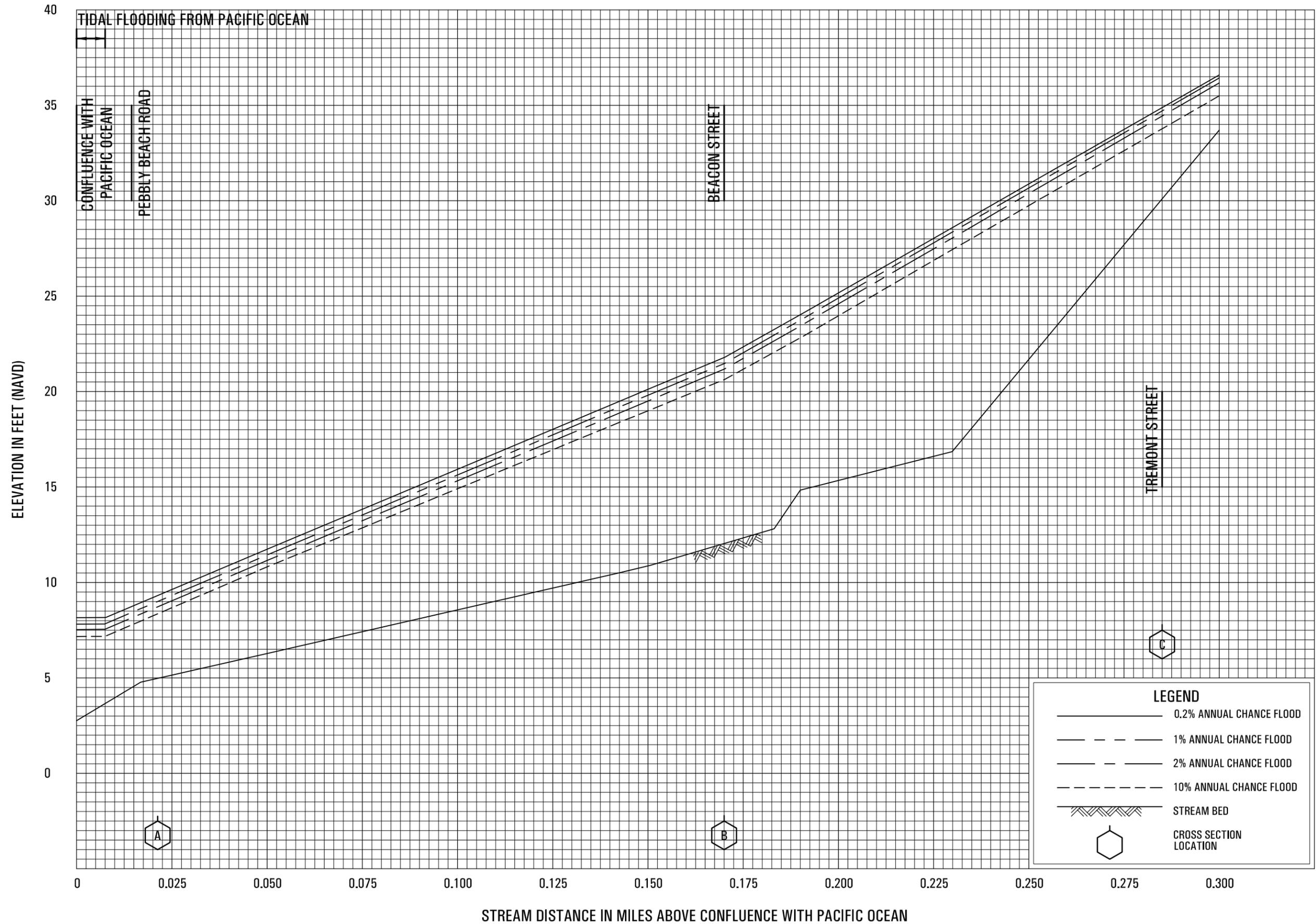
AND INCORPORATED AREAS



FLOOD PROFILES

ANAVERDE CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS**

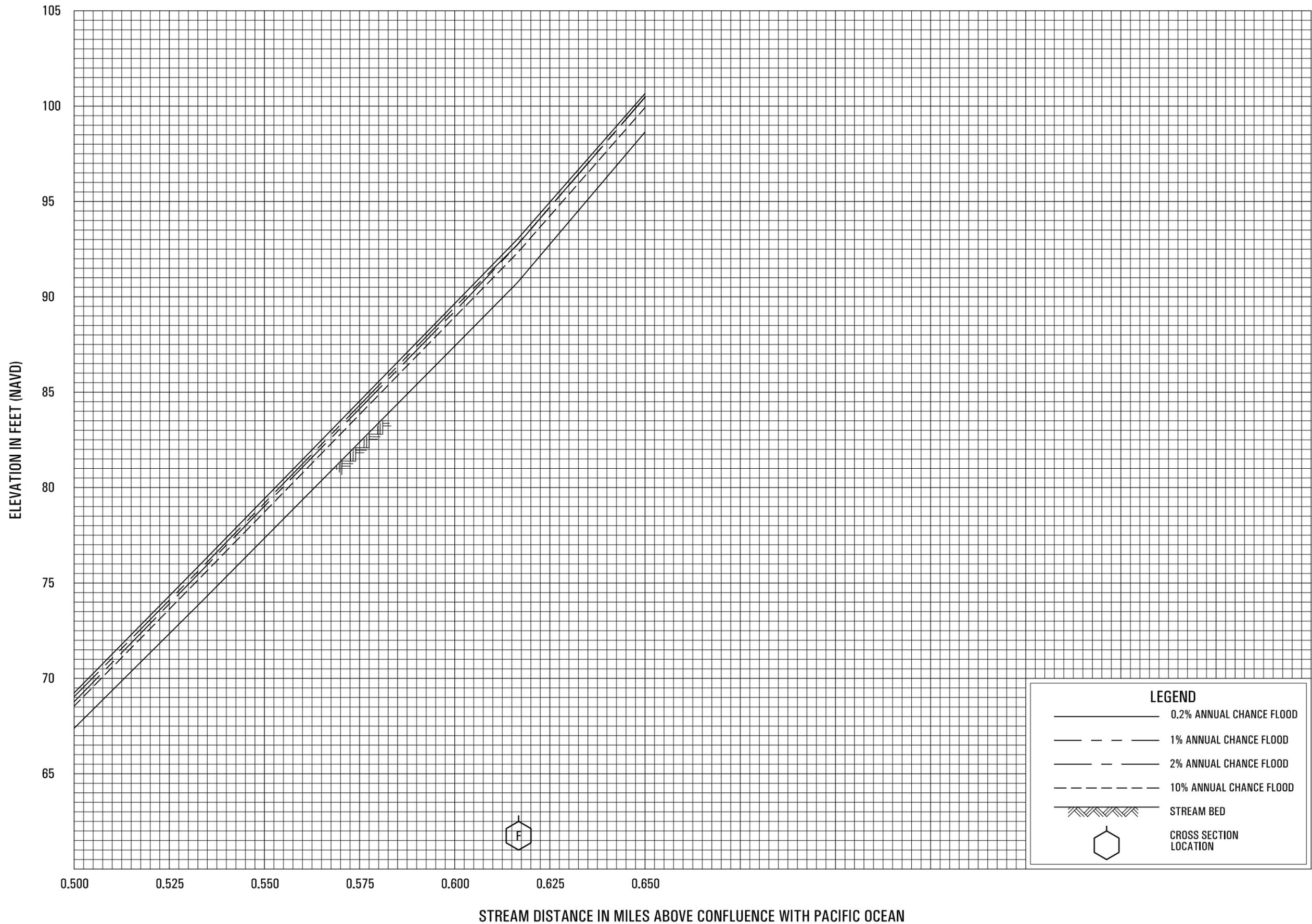


FLOOD PROFILES

AVALON CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

LOS ANGELES 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

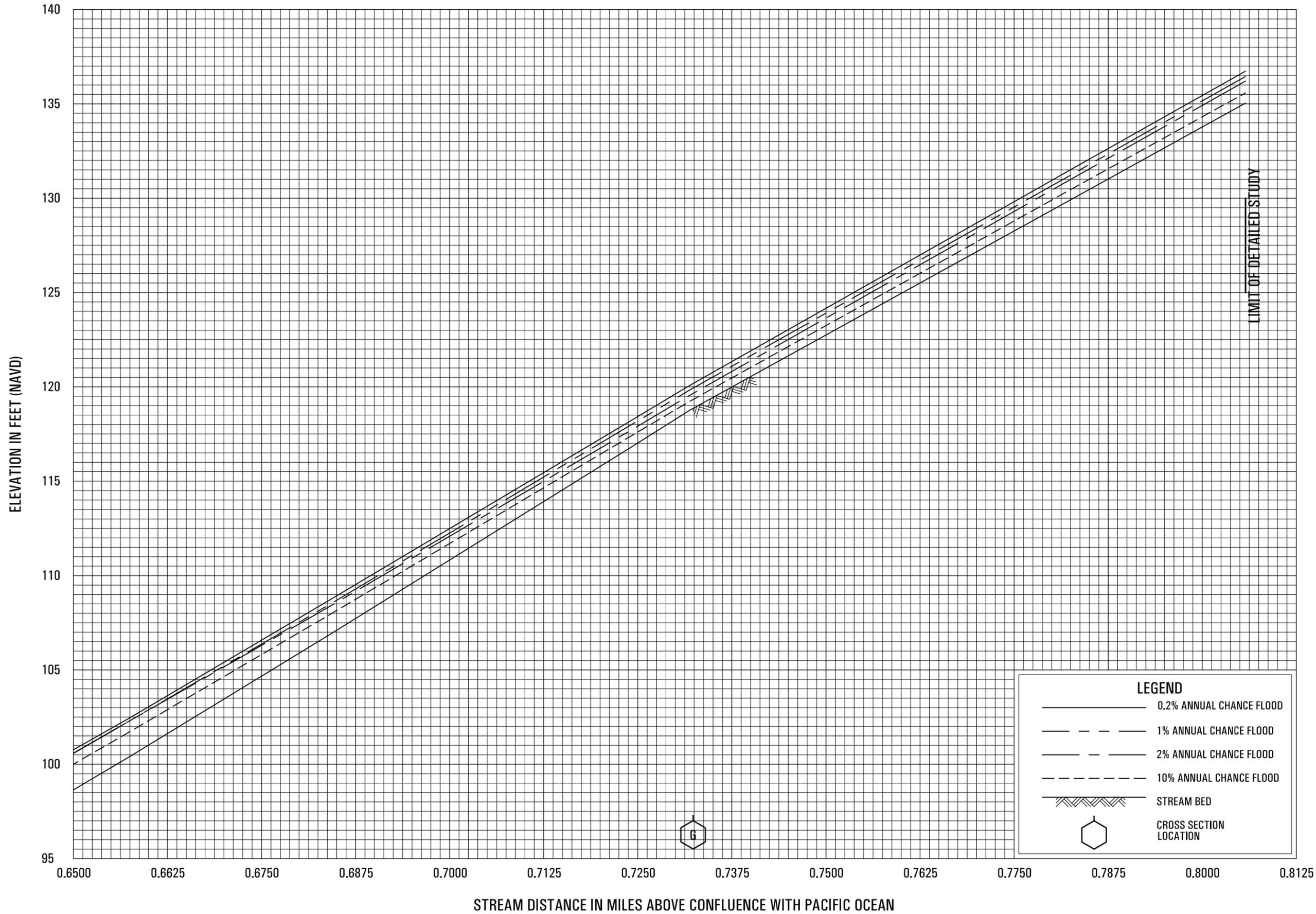
FLOOD PROFILES

AVALON CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

**LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS**

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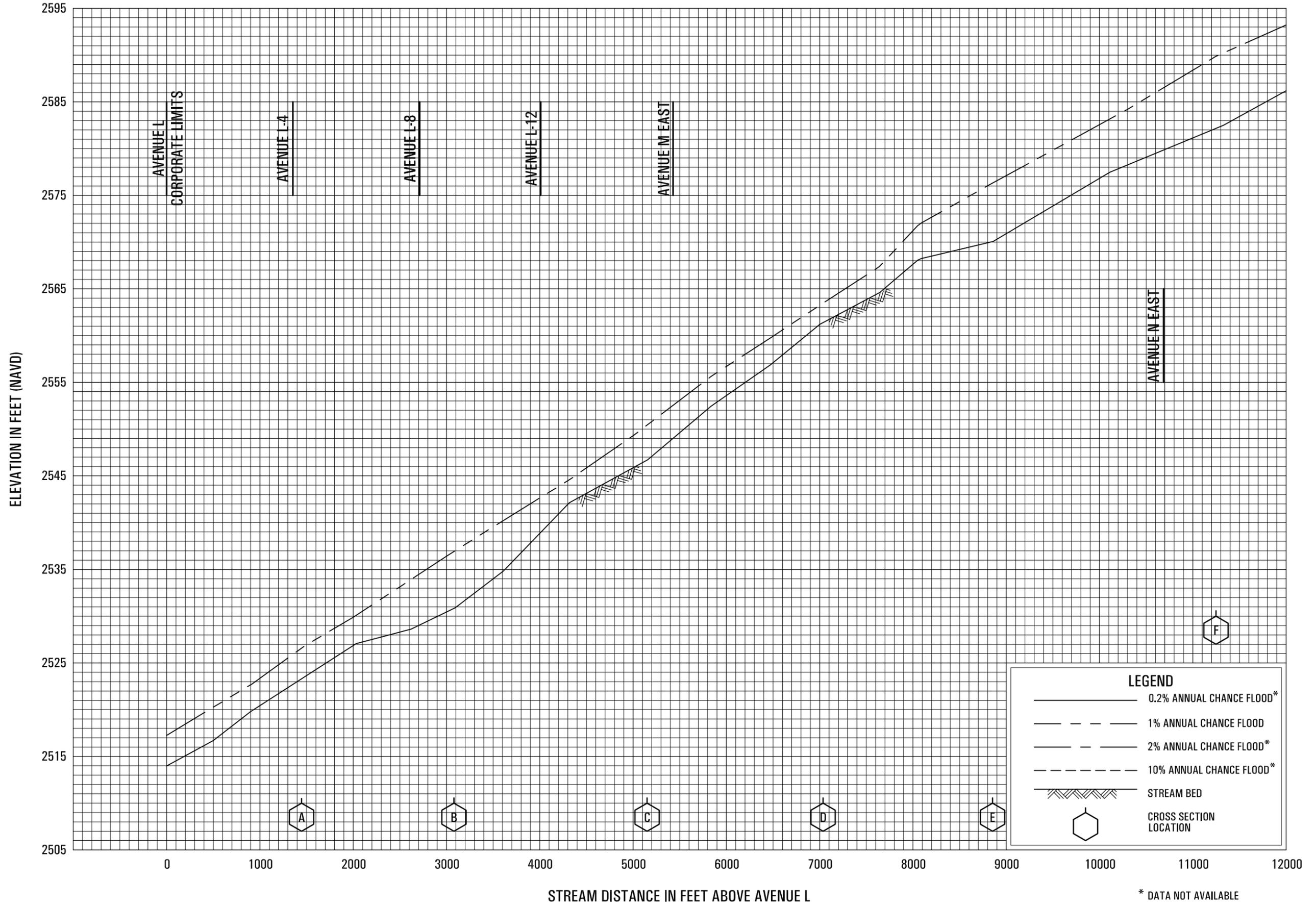
FLOOD PROFILES

AVALON CANYON

FEDERAL EMERGENCY MANAGEMENT AGENCY

LOS ANGELES COUNTY, CA

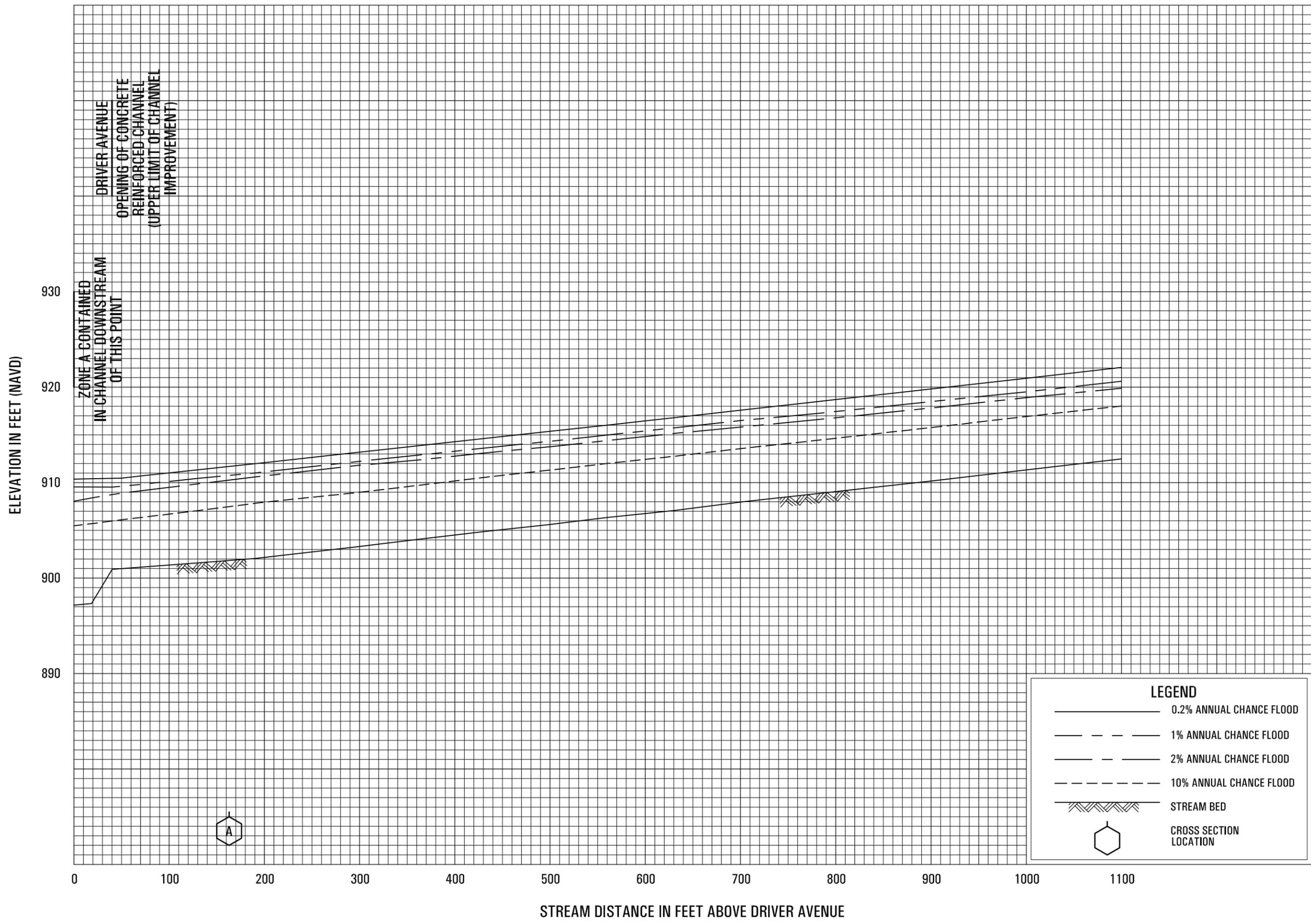
AND INCORPORATED AREAS



FLOOD PROFILES

BIG ROCK WASH

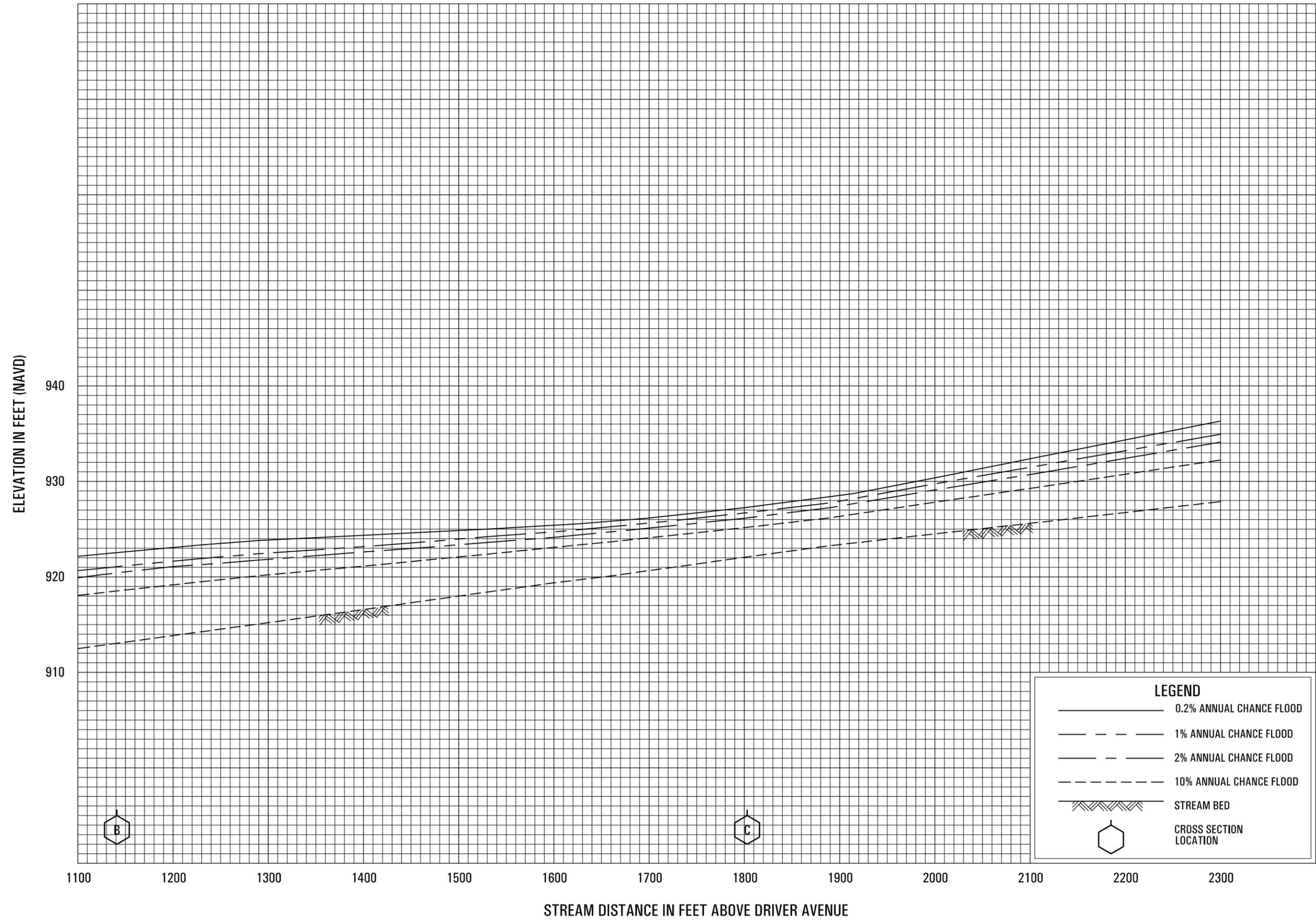
**FEDERAL EMERGENCY MANAGEMENT AGENCY
LOS ANGELES COUNTY, CA
AND INCORPORATED AREAS**



FLOOD PROFILES

CHESEBORO CREEK

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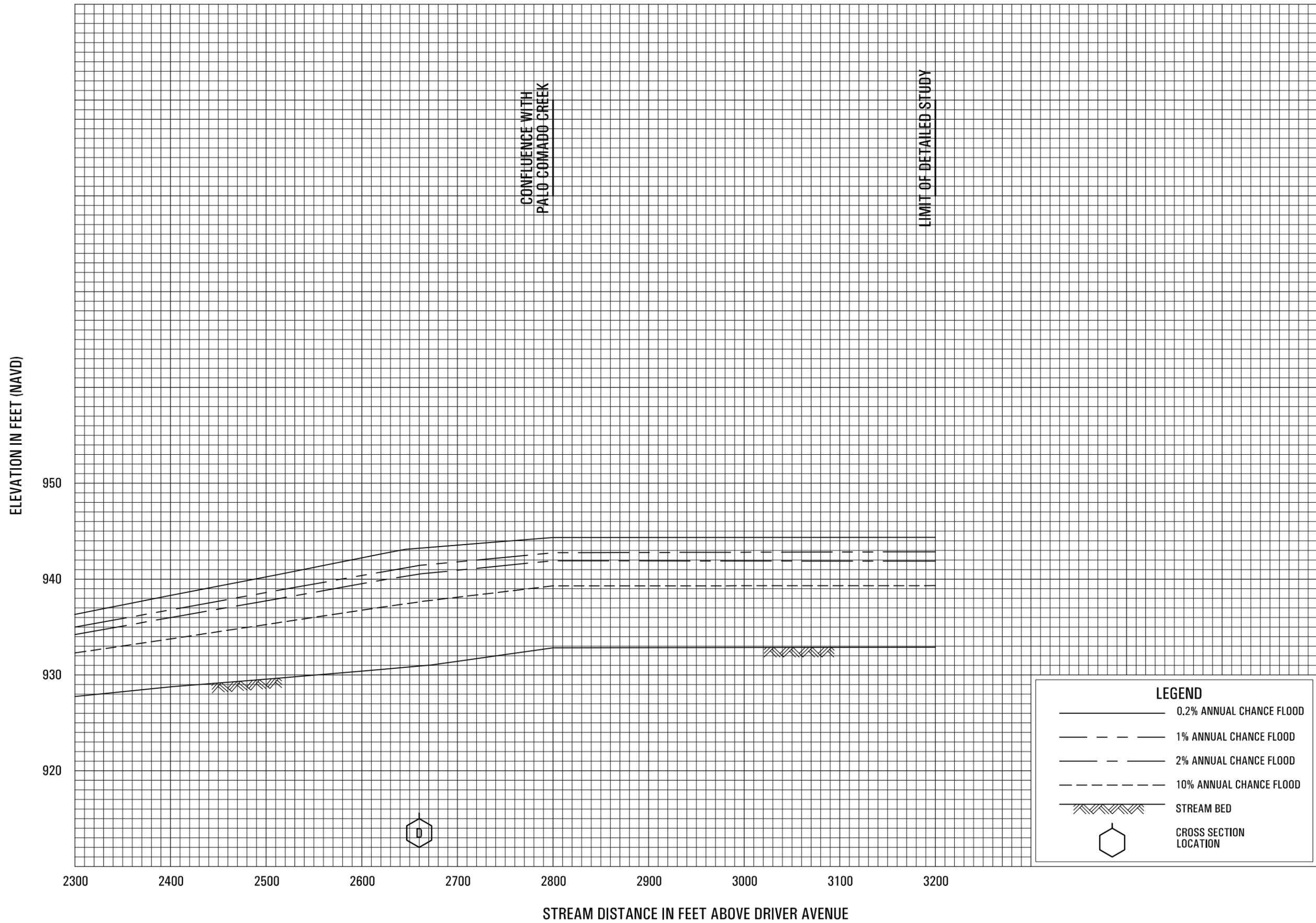
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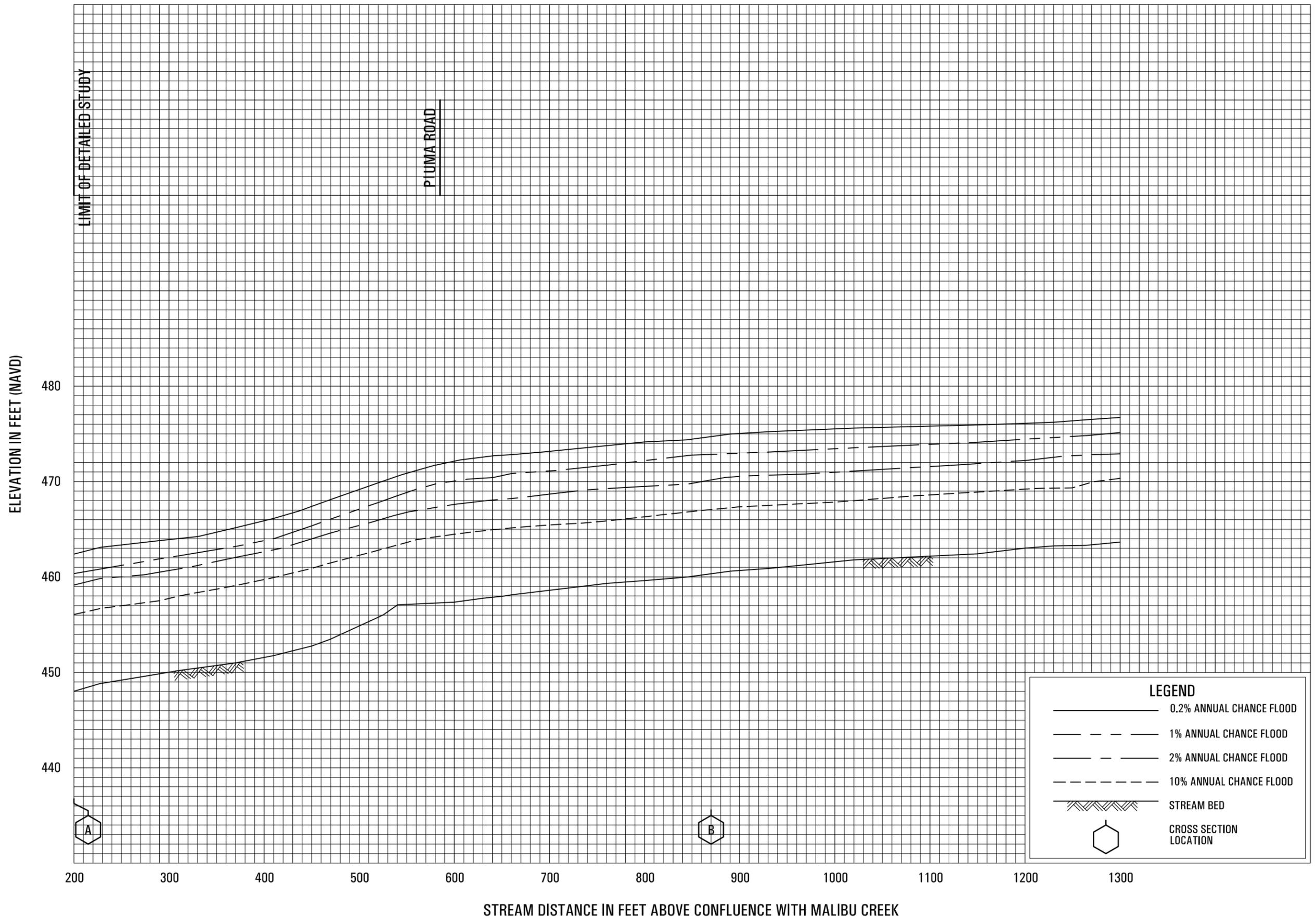


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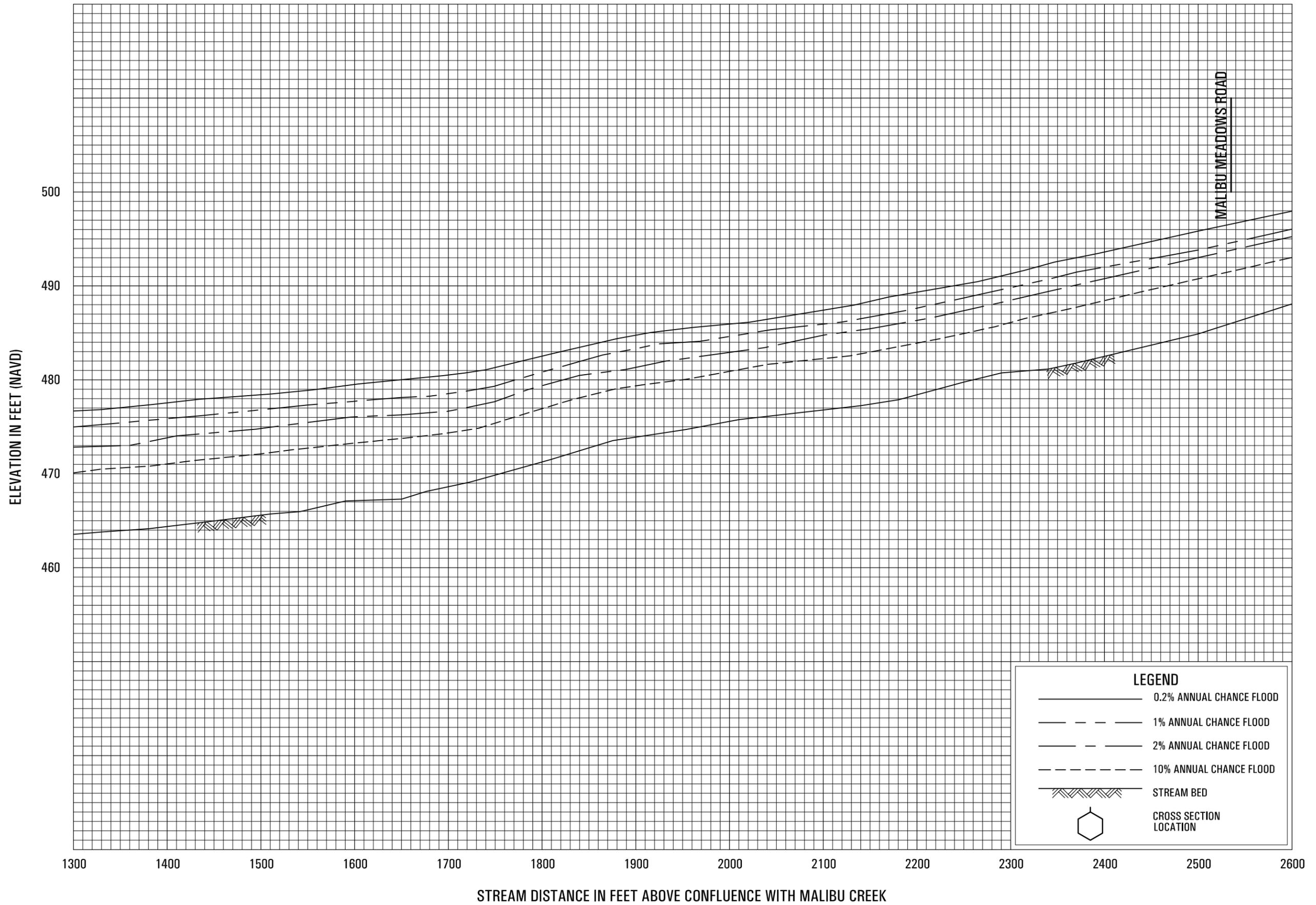
FLOOD PROFILES

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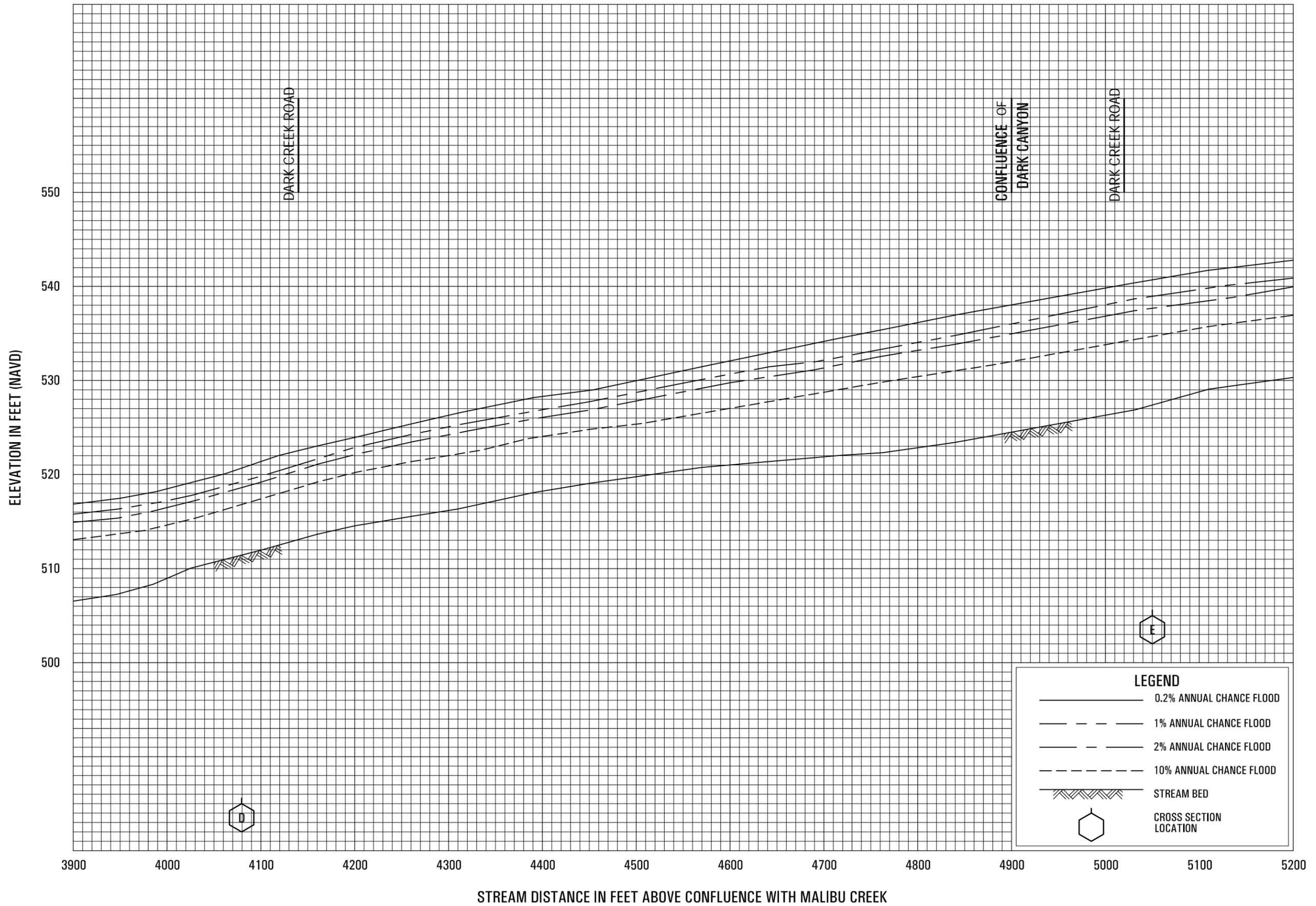
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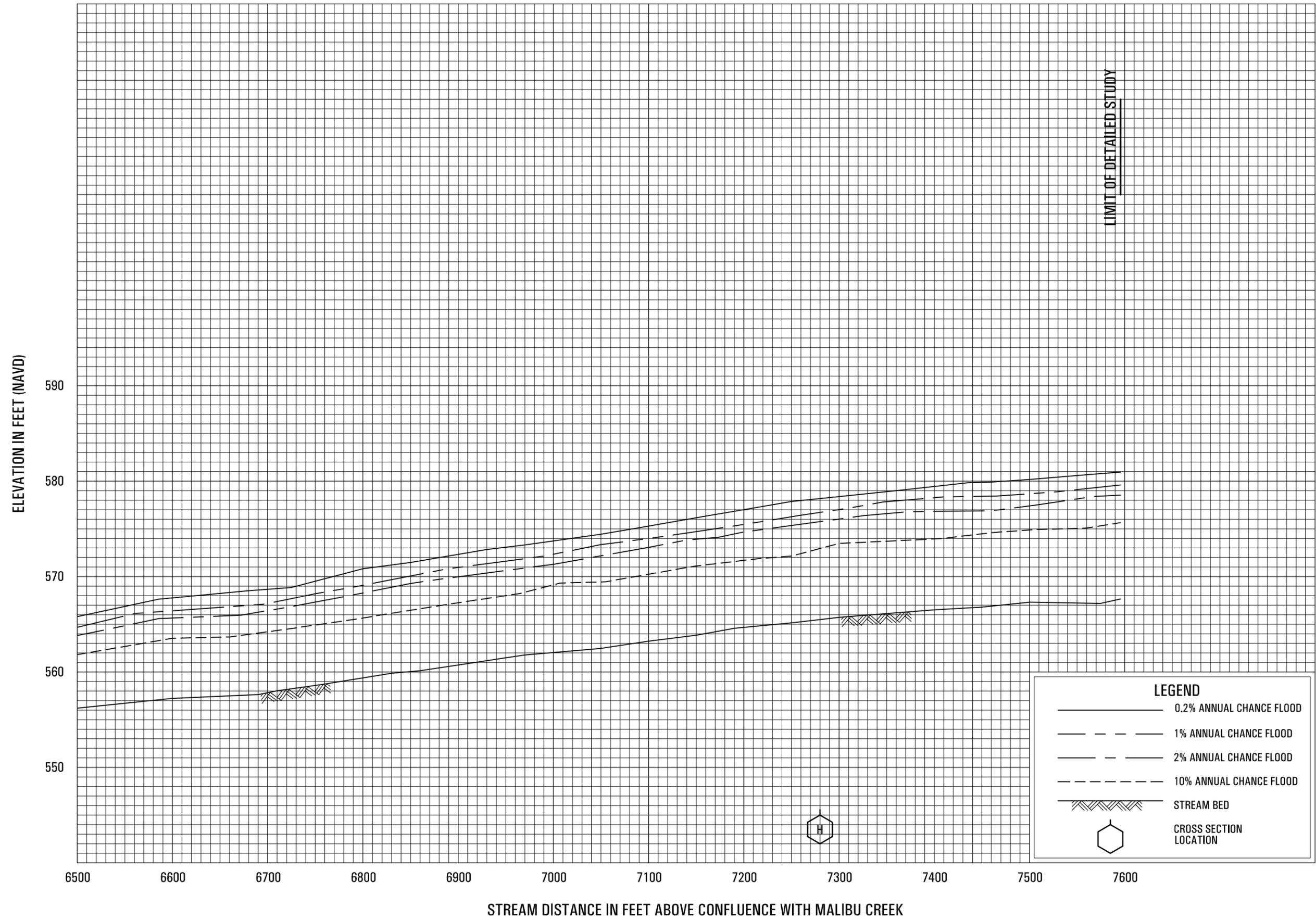
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