

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 3



GUADALUPE COUNTY, TEXAS AND INCORPORATED AREAS

| COMMUNITY NAME | COMMUNITY NUMBER |
|---|------------------|
| CIBOLO, CITY OF | 480267 |
| GUADALUPE COUNTY, UNINCORPORATED AREAS | 480266 |
| LULING, CITY OF | 480096 |
| MARION, CITY OF | 480268 |
| NEW BERLIN, CITY OF | 481625 |
| NEW BRAUNFELS, CITY OF | 485493 |
| SAN MARCOS, CITY OF | 485505 |
| SANTA CLARA, CITY OF | 480013 |
| SCHERTZ, CITY OF | 480269 |
| SEGUIN, CITY OF | 485508 |
| SELMA, CITY OF | 480046 |
| STAPLES, CITY OF | 481529 |



FEMA

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FLOOD INSURANCE STUDY NUMBER
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Version Number 2.6.3.3

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| Flood Profiles | <u>Panel</u> |
|---------------------------------|--------------|
| INTENTIONALLY LEFT OUT | 01 P |
| Alligator Creek | 02-05 P |
| Cibolo Creek | 06-22 P |
| Cibolo-Dietz Creek Diversion | 23-24 P |
| Cibolo Creek Landfill Diversion | 25 P |
| Cibolo Creek Tributary No. 13 | 26 P |
| Cottonwood Creek North | 27-30 P |
| Cottonwood Creek South | 31-39 P |
| Dietz Creek | 40-44 P |
| East Branch Dietz Creek | 45-48 P |
| Elm Creek North | 49-50 P |
| Elm Creek South | 51-54 P |
| Geronimo Creek | 55-61 P |

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Exhibits

| Flood Profiles | <u>Panel</u> |
|-----------------------------------|--------------|
| Guadalupe River | 62-77 P |
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| Town Creek | 101-105 P |
| Town Creek Tributary No. 1 | 106 P |
| Walnut Branch | 107-108 P |
| York Creek | 109-117 P |

Published Separately

Flood Insurance Rate Map (FIRM)

Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams

[Not Applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project.

Table 25: Summary of Coastal Transect Mapping Considerations

[Not Applicable to this Flood Risk Project]

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 33, “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 www.fema.gov/floodplain-management/letter-map-amendment-loma 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 www.fema.gov/floodplain-management/letter-map-amendment-loma 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 www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/mt-2-application-forms-and-instructions 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 Guadalupe County FIRM are listed in Table 27.

Table 26: Incorporated Letters of Map Change

[Not Applicable to this Flood Risk Project]

6.5.4 Physical Map Revisions

A Physical Map Revisions (PMR) is 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 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 Guadalupe County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFMs) 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 2, “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 27 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 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.
- *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 PMRs 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 Guadalupe County FIRMs in countywide format was 11/02/2007.

Table 27: Community Map History

| Community Name | Initial Identification Date | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|--|-----------------------------|-----------------------------|--|-----------------------------|---|
| Cibolo, City of | 02/01/1974 | 02/01/1974 | 04/02/1976 | 05/19/1981 | 09/29/2010 11/02/2007 06/02/1995 |
| Guadalupe County, Unincorporated Areas | 01/24/1975 | 01/24/1975 | 11/08/1977 | 03/01/1979 | 12/30/2020 11/02/2007 11/20/1998 08/16/1995 01/03/1985 11/25/1980 |
| Luling, City of ¹ | 05/24/1974 | 05/24/1974 | 05/07/1976 | 01/16/1976 | 12/30/2020 06/19/2012 ³ 12/08/1998 ³ |
| Marion, City of | 01/09/1974 | 01/09/1974 | 04/23/1976 | 01/03/1986 | 11/02/2007 |
| New Berlin, City of | 01/24/1975 ¹ | 01/24/1975 ¹ | 11/08/1977 ¹ 01/31/1978 ² | 03/01/1979 | 09/29/2010 ² 11/02/2007 02/16/1996 ² 08/16/1995 07/17/1989 ² 10/16/1984 ² |
| New Braunfels, City of | 12/02/1972 | 12/02/1972 | N/A | 12/02/1972 | 09/02/2009 ⁴ 11/02/2007 01/05/2006 05/15/1991 06/17/1986 05/07/1976 09/12/1875 07/01/1974 11/09/1973 |

Table 27: Community Map History, (continued)

| Community Name | Initial Identification Date | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|-----------------------------------|-----------------------------|-----------------------------|-----------------------|-----------------------------|--|
| San Marcos, City of ¹ | 01/24/1975 | 01/24/1975 | 11/08/1977 | 03/01/1979 | 12/30/2020 11/02/2007 11/20/1998 08/16/1995 01/03/1985 11/25/1980 |
| Santa Clara, City of ¹ | 01/24/1975 | 01/24/1975 | 11/08/1977 | 03/01/1979 | 11/02/2007 11/20/1998 08/16/1995 01/03/1985 11/25/1980 |
| Schertz, City of | 03/01/1974 | 03/01/1974 | 08/06/1976 | 09/15/1977 | 09/29/2010 ² 09/02/2009 ⁴ 11/02/2007 07/17/1995 09/30/1992 |
| Seguin, City of | 06/18/1971 | N/A | N/A | 06/18/1971 | 11/02/2007 03/07/2000 12/30/1980 |
| Selma, City of | 12/06/1974 | 12/06/1974 | N/A | 07/02/1980 | 09/29/2010 11/02/2007 02/16/1996 ² |
| Staples, City of ¹ | 01/24/1975 | 01/24/1975 | 11/08/1977 | 03/01/1979 | 12/30/2020 11/02/2007 11/20/1998 08/16/1995 01/03/1985 11/25/1980 |

¹Dates for this community were taken from Guadalupe County, Unincorporated Areas

²Dates were taken from the Bexar County Flood Insurance Study

³Dates were taken from the Caldwell County Flood Insurance Study

⁴Dates were taken from the Comal County Flood Insurance Study

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 28: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------------------|------------------|-----------------------------|------------------|---------------------|---|
| Alligator Creek | 06/17/1986 | K. M. Ng & Associates, Inc. | N/A | August 1983 | New Braunfels, City of |
| Alligator Creek | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas; New Braunfels, City of |
| Cibolo Creek | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Guadalupe County, Unincorporated Areas; Schertz, City of; Selma, City of |
| Cibolo Creek | 06/02/1995 | Dewberry & Davis and USACE | EMW90-E-3263 | January 1993 | Guadalupe County, Unincorporated Areas; New Berlin, City of; |
| Cibolo-Dietz Creek Diversion | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Schertz, City of |
| Cibolo Creek Landfill Diversion | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Schertz, City of |
| Cibolo Creek Tributary No.13 | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of |
| Cottonwood Creek North | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |
| Cottonwood Creek South | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report, (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------------------|------------------|--|------------------|---------------------|---|
| Dietz Creek | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Selma, City of; Schertz, City of |
| East Branch Dietz Creek | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Schertz, City of |
| Elm Creek North | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |
| Elm Creek South | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |
| Geronimo Creek | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas; New Braunfels, City of; Seguin, City of |
| Guadalupe River | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Guadalupe County, Unincorporated Areas; New Braunfels, City of; Seguin, City of |
| Guadalupe River | 01/05/2006 | CH2MHILL for the City of New Braunfels | N/A | 08/22/2003 | New Braunfels, City of |
| Guadalupe River | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |
| Interstate Highway-10 Diversion | 06/02/1995 | Dewberry & Davis | EMW-90-E-3263 | January 1993 | Guadalupe County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report, (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|----------------------------------|------------------|-----------------------|------------------|---------------------|--|
| Long Creek | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |
| San Marcos River | 12/30/2020 | Compass PTS JV | HSFE06-15-J-0002 | 8/31/2016 | Guadalupe County, Unincorporated Areas; Luling, City of; San Marcos, City of, Staples, City of |
| Santa Clara Creek | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas; Santa Clara, City of |
| Santa Clara Creek Tributary No.1 | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas; Santa Clara, City of |
| Santa Clara Creek Tributary No.2 | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas; Marion, City of; Santa Clara, City of |
| Town Creek | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Guadalupe County, Unincorporated Areas |
| Town Creek | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Guadalupe County, Unincorporated Areas |
| Town Creek Tributary No.1 | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of |

Table 28: Summary of Contracted Studies Included in this FIS Report, (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------------|------------------|-----------------------|------------------|---------------------|---|
| Town Creek Tributary No.1 | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Guadalupe County, Unincorporated Areas |
| Town Creek Tributary No.2 | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Guadalupe County, Unincorporated Areas; Santa Clara, City of |
| Town Creek Tributary No.4 | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Cibolo, City of; Guadalupe County, Unincorporated Areas |
| Walnut Branch | 11/02/2007 | Half Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Guadalupe County Unincorporated Areas; Seguin, City of |
| York Creek | N/A | NRCS | IAA-H-4-73 | 03/01/1979 | Guadalupe County, Unincorporated Areas |

Table 28: Summary of Contracted Studies Included in this FIS Report, (continued)

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---|------------------|------------------------|------------------|---------------------|---|
| Zone A Streams (Alligator Creek, Bear Hollow Creek, Blue Creek, Brushy Creek, Buzzard Creek, Campbell Branch, Cantau Creek, Cardell Creek, Cibola Tributary No. 16, Cottonwood Creek North, Darst Creek, Deadman Creek, Deer Creek, Dukes Hollow Creek, Ecletto Creek, Elm Creek South, Fourmile Creek, Highsmith Creek, Konde Branch, Krams Creek, Little Creek, Long Branch, Long Creek (Tributary of the Guadalupe River), Mill Creek, Nash Creek, O'Neil Creek, Red Branch, Rudolph Creek, Sandies Creek, Salt Creek, Santa Clara Creek, Saul Creek, Sawlog Creek, Smith Creek, Tidwell Creek, Town Creek, Wolf Creek, and Youngs Creek) | 11/02/2007 | Halff Associates, Inc. | EMT-2002-CO-0051 | September 2005 | Guadalupe County, Unincorporated Areas; New Berlin, City of; New Braunfels, City of; San Marcos, City of; Santa Clara, City of; Schertz, City of; Seguin, City of; Selma, City of |

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 29. 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 29: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|--|------------------|-----------------|-------------------|---|
| Cibolo, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |
| Guadalupe County, Unincorporated Areas | 12/30/2020 | 10/19/2016 | Flood Risk Review | Hays County, Caldwell, Guadalupe County, Cities of Martindale, Woodcreek, San Marcos, Luling, Wimberley, FEMA, TWDB, Compass JV |
| | | 06/07/2017 | Final CCO | Hays County, City of Schertz, Gonzales County, AECOM, Compass, HDR, City of Mountain City, City of Buda, Guadalupe County, Village of Bear Creek, City of San Marcos, City of Wimberly, City of Woodcreek, City of Creedmoor, City of Kyle, City of Austin, Caldwell County, City of Luling, Freese & Nichols |
| Luling, City of | 12/30/2020 | 09/21/2016 | Hydrology Meeting | Hays County, Caldwell County, Cities of Luling, San Marcos, and Wimberley, Compass JV, FEMA, GBRA, TWDB, USGS, and USACE |
| | | 10/19/2016 | Flood Risk Review | Hays County, Caldwell, Guadalupe County, Cities of Martindale, Woodcreek, San Marcos, Luling, Wimberley, FEMA, TWDB, Compass JV |
| | | 06/07/2017 | Final CCO | Hays County, City of Schertz, Gonzales County, AECOM, Compass, HDR, City of Mountain City, City of Buda, Guadalupe County, Village of Bear Creek, City of San Marcos, City of Wimberly, City of Woodcreek, City of Creedmoor, City of Kyle, City of Austin, Caldwell County, City of Luling, Freese & Nichols |

Table 29: Community Meetings, (continued)

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|----------------------------------|------------------|-----------------|-------------------|---|
| Marion, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |
| New Berlin, City of ¹ | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |
| New Braunfels, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |
| San Marcos, City of | 12/30/2020 | 09/21/2016 | Other | Hays County, Caldwell County, Cities of Luling, San Marcos, and Wimberley, Compass JV, FEMA, GBRA, TWDB, USGS, and USACE. |
| | | 09/22/2016 | Flood Risk Review | Hays County, Caldwell County, City San Marcos, TWDB, TDPS, GBRA, FEMA, and Compass JV. |

Table 29: Community Meetings, (continued)

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|----------------------|------------------|-----------------|-------------------|--|
| San Marcos, City of | 12/30/2020 | 10/19/2016 | Flood Risk Review | Hays County, Caldwell County, Guadalupe County, Cities of Martindale, San Marcos, Luling, and Wimberley, FEMA, TWDB, Compass JV. |
| | | 06/07/2017 | Final CCO | Hays County, City of Schertz, Gonzales County, AECOM, Compass JV, HDR, Cities of Mountain City and Buda, Guadalupe County, Village of Bear Creek, Cities of San Marcos, Wimberly, Woodcreek, Creedmore, Kyle, and Austin, Caldwell County, City of Luling, Freese & Nichols. |
| Santa Clara, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |
| Schertz, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |
| Seguin, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |

Table 29: Community Meetings, (continued)

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|------------------|------------------|-----------------|--------------|---|
| Staples, City of | 12/30/2020 | 06/07/2017 | Final CCO | Hays County, City of Schertz, Gonzales County, AECOM, Compass, HDR, City of Mountain City, City of Buda, Guadalupe County, Village of Bear Creek, City of San Marcos, City of Wimberly, City of Woodcreek, City of Creedmoor, City of Kyle, City of Austin, Caldwell County, City of Luling, Freese & Nichols |
| Selma, City of | 11/02/2007 | 07/31/2003 | Initial CCO | Michael Baker Jr., Inc. (RMC); Schertz, City of; Cibolo, City of; Seguin, City of; Selma, City of; Marion, City of; Guadalupe County; Texas Water Development Board (TWDB); Guadalupe Blanco River Authority (GBRA); Halff Associates, Inc. |
| | | 01/27/2006 | Final CCO | FEMA, Guadalupe County, various incorporated communities and the study contractor |

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 www.fema.gov.

Table 30 is a list of the locations where FIRMs for Guadalupe 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 30: Map Repositories

| Community | Address | City | State | Zip Code |
|---|--|---------------|-------|----------|
| Cibolo, City of | City Hall 200 South Main Street | Cibolo | TX | 78108 |
| Guadalupe County, Unincorporated Areas | Guadalupe County Environmental Health Department 2605 North Guadalupe Street | Seguin | TX | 78155 |
| Luling, City of | City Hall 509 East Crockett Street | Luling | TX | 78648 |
| Marion, City of | Public Works Director 108 W. Huebinger Street PO Box 158 | Marion | TX | 78124 |
| New Berlin, City of | City Hall 275 FM 2538 | New Berlin | TX | 78155 |
| New Braunfels, City of | Planning and Community Dept. 424 S. Castell Avenue | New Braunfels | TX | 78130 |
| San Marcos, City of | Engineering Department San Marcos City Hall 630 East Hopkins Street | San Marcos | TX | 78666 |
| Santa Clara, City of | City Hall 1535 North Santa Clara Road | Marion | TX | 78124 |
| Schertz, City of | City Hall 1400 Schertz Parkway | Schertz | TX | 78154 |

Table 30: Map Repositories, (continued)

| Community | Address | City | State | Zip Code |
|------------------|--|---------|-------|----------|
| Seguin, City of | Planning and Codes Department 108 E. Mountain Street | Seguin | TX | 78155 |
| Selma, City of | City Hall 9375 Corporate Drive | Selma | TX | 78154 |
| Staples, City of | Civic Center 9615 FM 621 | Staples | TX | 78670 |

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 35.

Table 31 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 31: 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 VI | Jennifer Knecht FEMA Region Representative FEMA Region VI 800 North Loop 288 Denton, TX 76209 (940) 898-5553 Jennifer.Knecht@fema.dhs.gov |
| Other Federal Agencies | |
| USGS website | www.usgs.gov |
| Hydraulic Engineering Center website | www.hec.usace.army.mil |

Table 31: Additional Information, (continued)

| State Agencies and Organizations | |
|----------------------------------|---|
| State NFIP Coordinator | Michael Segner, CFM Texas Water Development Board 1700 North Congress Avenue P.O. Box 13231 Austin, TX 78711-3231 (512) 463-3509 x111 michael.segner@twdb.texas.gov |
| State GIS Coordinator | Mike Ouimet State GIS Coordinator 300 West 15th Street P.O. Box 13564 Austin, TX 78711-3564 (512) 305-9076 Fax: (512) 475-4759 mike.ouimet@dir.state.tx.us |

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 32 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 32: 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 |
|----------------------|-------------------------------------|--|--|----------------------|------------------------------------|---|
| CH2M Hill | CH2M Hill | Milestone II Report: City of New Braunfels FIS Update | | New Braunfels, TX | May, 2003 | |
| Colwick, 1972 | | Severe Floods at New Braunfels, TX | Colwick, Allen B, McGill, H.N., Erichsen, F.P. | | May 1972, Revised June 1973 | |
| FEMA, 1981 | Federal Emergency Management Agency | Flood Insurance Study, Caldwell County, Texas (Unincorporated Areas) | | Washington, D.C. | 09/15/1981 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 1986 | Federal Emergency Management Agency | Flood Insurance Study, City of New Braunfels, Comal and Guadalupe Counties, Texas | | Washington, D.C. | 06/17/1986 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 1991 | Federal Emergency Management Agency | Flood Insurance Study, City of New Braunfels, Comal and Guadalupe Counties, Texas | | Washington, D.C. | 05/15/1991 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 1992 | Federal Emergency Management Agency | Flood Insurance Study, City of Schertz, Bexas, Comal and Guadalupe Counties, Texas | | Washington, D.C. | 09/30/1992 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 1995 | Federal Emergency Management Agency | Flood Insurance Study, City of Cibolo, Guadalupe County, Texas | | Washington, D.C. | 06/02/1995 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 1998 | Federal Emergency Management Agency | Flood Insurance Study, Guadalupe County, Texas (Unincorporated Areas) | | Washington, D.C. | 11/20/1998 | FEMA Flood Map Service Center msc.fema.gov |

Table 32: 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, 2000 | Federal Emergency Management Agency | Flood Insurance Study, City of Seguin, Guadalupe County, Texas | | Washington, D.C. | 03/07/2000 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 2002-A | Federal Emergency Management Agency | Flood Insurance Study, Bexar County, Texas and Incorporated Areas | | Washington, D.C. | 01/04/2002 | FEMA Flood Map Service Center msc.fema.gov |
| FEMA, 2002-B | Federal Emergency Management Agency | Finding of no Significant Impact for West Dietz Creek Drainage Improvement Project in the City of Schertz, Texas (FEMA-1257-DR-TX). | | | 09/13/2002 | |
| FEMA, 2005 | Federal Emergency Management Agency | Preliminary Flood Insurance Study, City of New Braunfels, Comal and Guadalupe Counties, Texas | | Washington, D.C. | 2005 | FEMA Flood Map Service Center msc.fema.gov |
| GBRA, 1941 | Guadalupe-Brazos River Authority | San Marcos River and Guadalupe River Water-Surface Profiles | | | 1941 | |
| Landata, 2001 | Landata | Topographic Maps | | | 2001 | |
| McGraw-Hill, 1959 | McGraw-Hill Book Company | Open Channel Hydraulics | Chow, Ven Te | New York, NY | 1959 | |
| NB, 2000 | City of New Braunfels, Texas | Drainage and Erosion Control Manual | | | September 2000 | |
| NOAA, 1961 | USDOC, Weather Bureau, NOAA | Rainfall Frequency Atlas of the United States, Technical Paper No. 40 | | Washington, D.C. | May 1961 | |

Table 32: 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 |
|----------------------|--|---|---------------|----------------------|------------------------------------|---|
| NRCS, 1986 | Natural Resources Conservation Service | Technical Release TR-55, Urban Hydrology for Small Watersheds | | | June 1986 | |
| SCS, 1972 | Soil Conservation Service | Special Storm Report, Storm of May 11-12, 1972 | | New Braunfels, TX | | |
| SCS, 1976 | U.S. Department of Agriculture, Soil Conservaton Service | WSP-2 Computer Program, Technical Release No. 61 | | Washington, D.C. | May 1976 | |
| SCS, 1982 | U.S. Department of Agriculture, Soil Conservaton Service | TR-20 Computer Program for Project Formulation – Hydrology | | Washington, D.C. | May 1982 | |
| Spectrum, 2004 | Spectrum Mapping, LLC | Guadalupe, Texas, Final Report | | Denver, CO | May 2004 | |
| TNRIS | Texas Natural Resources Information System | USGS 30-meter National Elevation Dataset, DEM | | Austin, TX | | http://www.tnris.org/Digital Data/DEMs/dems.htm |
| Tobin, 1982 | Tobin Research, Inc. | Topographic Maps compiled from Aerial Photographs | | Comal County, TX | January 1982 | |
| Tobin, 2003 | Tobin International Ltd. | 0.5 foot resolution B&W Ortho-Imagery, Mr. SID format | | | 2003 | |
| TWDB, 1963 | Texas Water Development Board | Floods in Texas, Magnitude and Frequency of Peak Flows | | Austin, TX | December 1963 | |
| USACE, 1975 | U.S. Army Corps of Engineers, Fort Worth District | Special Flood Hazard Report, Walnut Branch, Seguin, Texas | | Fort Worth, TX | December 1975 | |

Table 32: 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, 1976 | U.S. Army Corps of Engineers, Hydrologic Engineering Center | HEC-2 Water Surface Profiles, Generalized Computer Program | | Davis, CA | November 1976 | |
| USACE, 1984 | U.S. Army Corps of Engineers, Hydrologic Engineering Center | HEC-2 Water Surface Profiles, Generalized Computer Program | | Davis, CA | April 1984 | |
| USACE, 1991-A | U.S. Army Corps of Engineers, Hydrologic Engineering Center | HEC-1 Flood Hydrograph Package, Generalized Computer Program | | Davis, CA | May 1991 | |
| USACE, 1991-B | U.S. Army Corps of Engineers, Hydrologic Engineering Center | HEC-2 Water-Surface Profiles, Generalized Computer Program | | Davis, CA | September 1991 | |
| USACE, 1992 | U.S. Army Corps of Engineers, Hydrologic Engineering Center | HEC-FFA Flood Frequency Analysis Computer Program, Version 3.1 | | Davis, CA | May 1992 | |
| USACE, 2001 | U.S. Army Corps of Engineers, Hydrologic Engineering Center | Hydrologic Engineering Center, HEC-RAS River Analysis System, Version 3.0.1 | | Davis, CA | March 2001 | |
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Table 32: 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, 2003-B | U.S. Army Corps of Engineers | Walnut Branch Section 206 Ecosystem Restoration Project, Seguin, Guadalupe County, Texas | | Fort Worth, TX | June 2003 | |
| USACE, 2004 | U.S. Army Corps of Engineers, Hydrologic Engineering Center | HEC-RAS Analysis System, Version 3.1.2 | | Davis, CA | April 2004 | |
| USCB, 2000 | US Census Bureau | Census 2000 Data for the State of Texas | | Texas State Library and Archives Commission | 05/28/2003 | http://www.tsl.state.tx.us/ref/abouttx/popcity12000.html |
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| USDA, 1985 | U.S. Department of Agriculture | National Engineering Handbook: Section 4, Hydrology | | Washington, D.C. | 1985 | |
| USDA, 2002 | U.S. Department of Agriculture | Soil Survey Geographic (SSURGO) database for Guadalupe County, Texas | | Fort Worth, TX | August 2002 | |
| USDA, DB | U.S. Department of Agriculture | STATSGO database | | | | |
| USDOT, 1973 | U.S. Department of Transportation, Federal Highway Administration | Hydraulics of Bridge Waterways, Second Edition | | Washington, D.C. | September 1973 | |

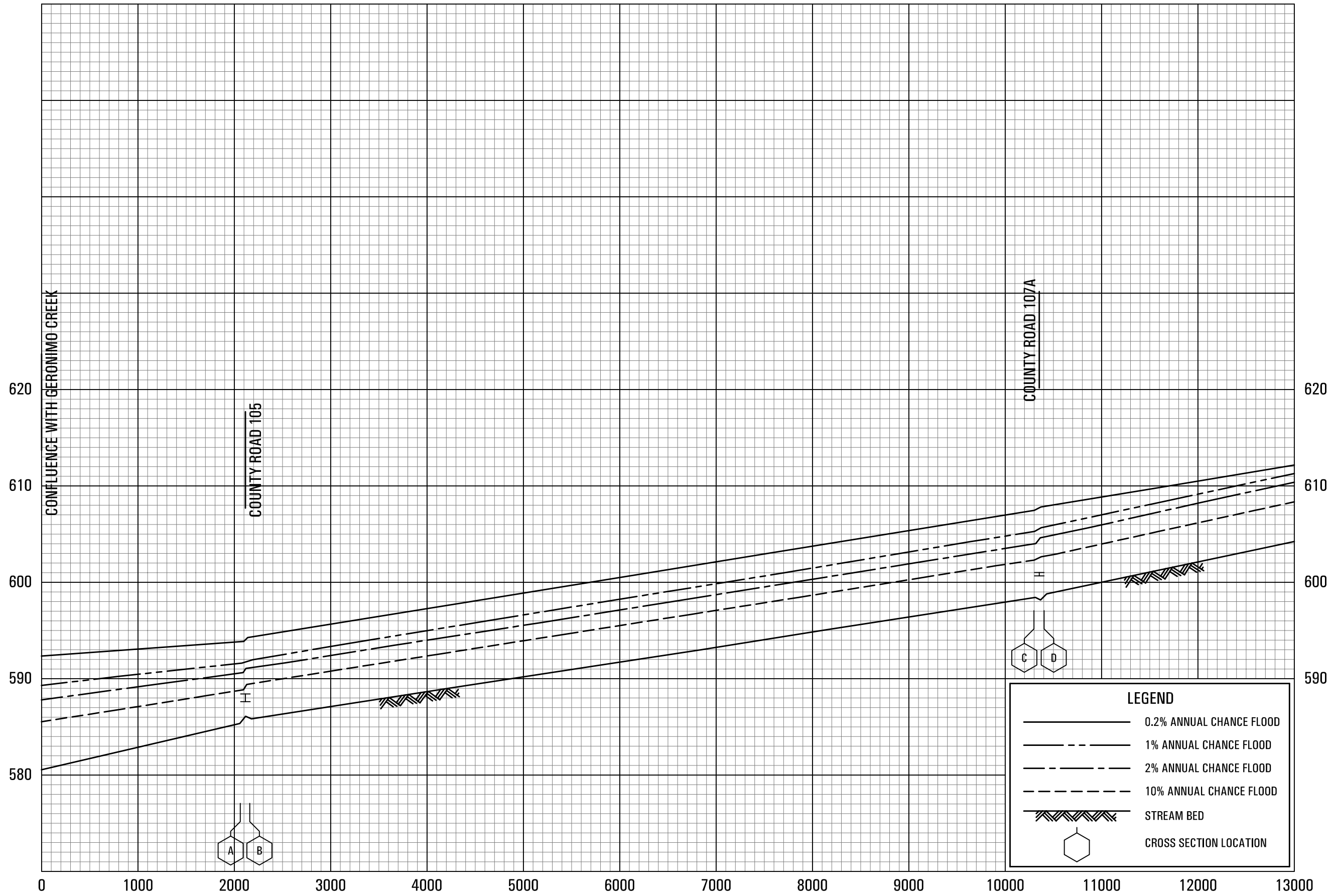
Table 32: Bibliography and References, (continued)

| Citation in this FIS | Publisher/ Issuer | Publication Title, "Article," Volume, Number, etc. | Author/Editor | Place of Publication | Publication Date/ Date of Issuance | Link |
|----------------------|---|---|----------------------------|----------------------|---|------|
| USGS 1998 | US Department of the Interior, Geologic Survey | Floods in the San Antonio and Guadalupe River Basins in Texas | R.M. Slade, Kristie Persky | Reston, VA | October, 1998 | |
| USGS, 1965 | US Department of the Interior, Geologic Survey | Surface Water Supply of the United States. Part 8. Western Gulf of Mexico Basins | | Washington, D.C. | 1965 | |
| USGS, 1970 | US Department of the Interior, Geologic Survey | Surface Water Supply of the United States. Part 8. Western Gulf of Mexico Basins. 1961-1965 | | Washington, D.C. | 1970 | |
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| USGS, 1974 | US Department of the Interior, Geologic Survey | Surface Water Supply of the United States. Part 8. Western Gulf of Mexico Basins. 1966-1970 | | Washington, D.C. | 1974 | |
| USGS, 1977 | US Department of the Interior, Geologic Survey | Techniques for Estimating the Magnitude and Frequency of Floods in Texas | | Washington, D.C. | 1977 | |
| USGS, 1981 | US Department of the Interior, Geologic Survey, Office of Water Data Collection, Interagency Advisory Committee in Water Data | Guidelines for Determining Flood Flow Frequency, Bulletin 17B | | Reston, VA | September 1981 | |
| USGS, 1999 | US Department of the Interior, Geologic Survey | Floods in the Guadalupe and San Antonio River Basins in Texas | | | October 1998 Revised September 1999 | |

Table 32: 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-A | US Department of the Interior, Geologic Survey | Major and Catastrophic Storms and Floods in Texas, U.S. Geological Survey Open-File Report 03-193, John Patton Narratives | | | | http://floodsafety.com/texas/USGSdemo/patton.htm |
| USGS, Topo-A | US Department of the Interior, Geologic Survey | 7.5-Minute Series Topographic Maps | | Washington, D.C. | 1957, 1958, 1961, 1962, 1964, 1967, 1973 | |
| USGS, Topo-A | US Department of the Interior, Geologic Survey | 7.5-Minute Series Topographic Maps | | Washington, D.C. | 1964, 1973, 1981, 1994 | |
| Watershed Concepts, 2005 | Watershed Concepts | FEMA 1425-DR-TX, Central Texas Disaster Recovery Assistance, July 2002 Flood High Water Mark Survey Report | | | 07/25/2002 Revised – 10/29/2002 & 08/16/2005 | |

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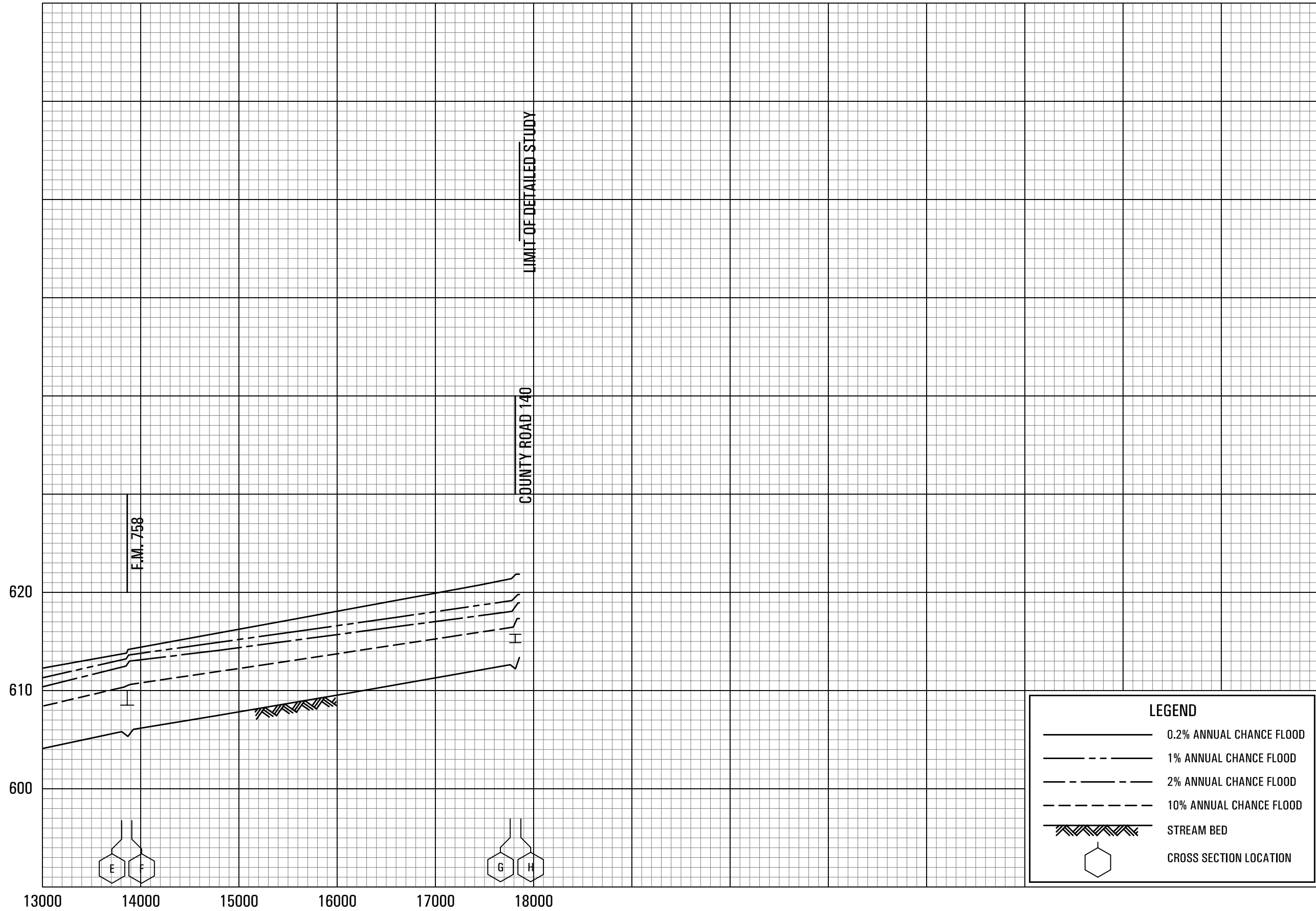


FLOOD PROFILES

ALLIGATOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



LEGEND

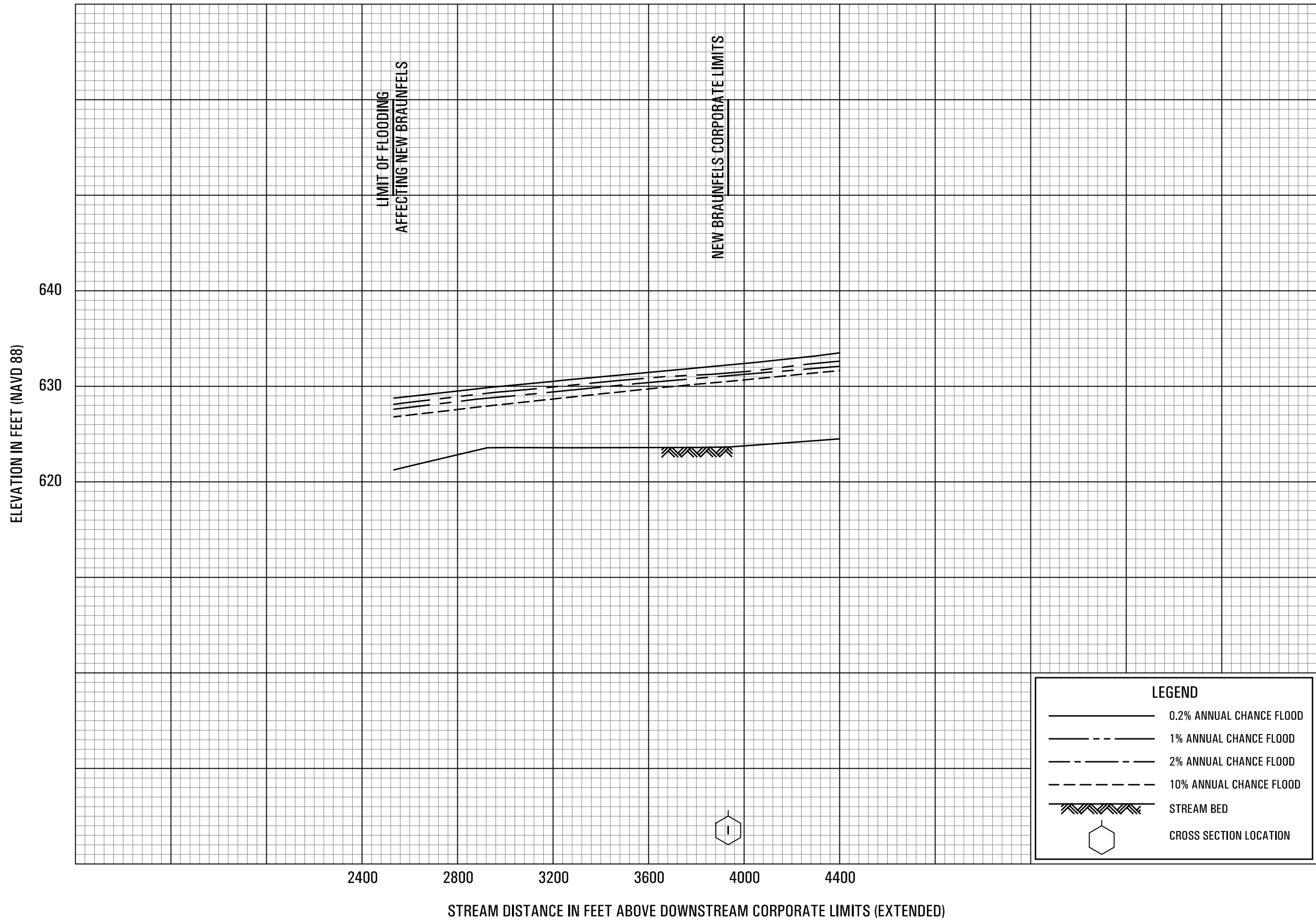
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- 2% ANNUAL CHANCE FLOOD
- 10% ANNUAL CHANCE FLOOD
- STREAM BED
- CROSS SECTION LOCATION

FLOOD PROFILES

ALLIGATOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

03P



LEGEND

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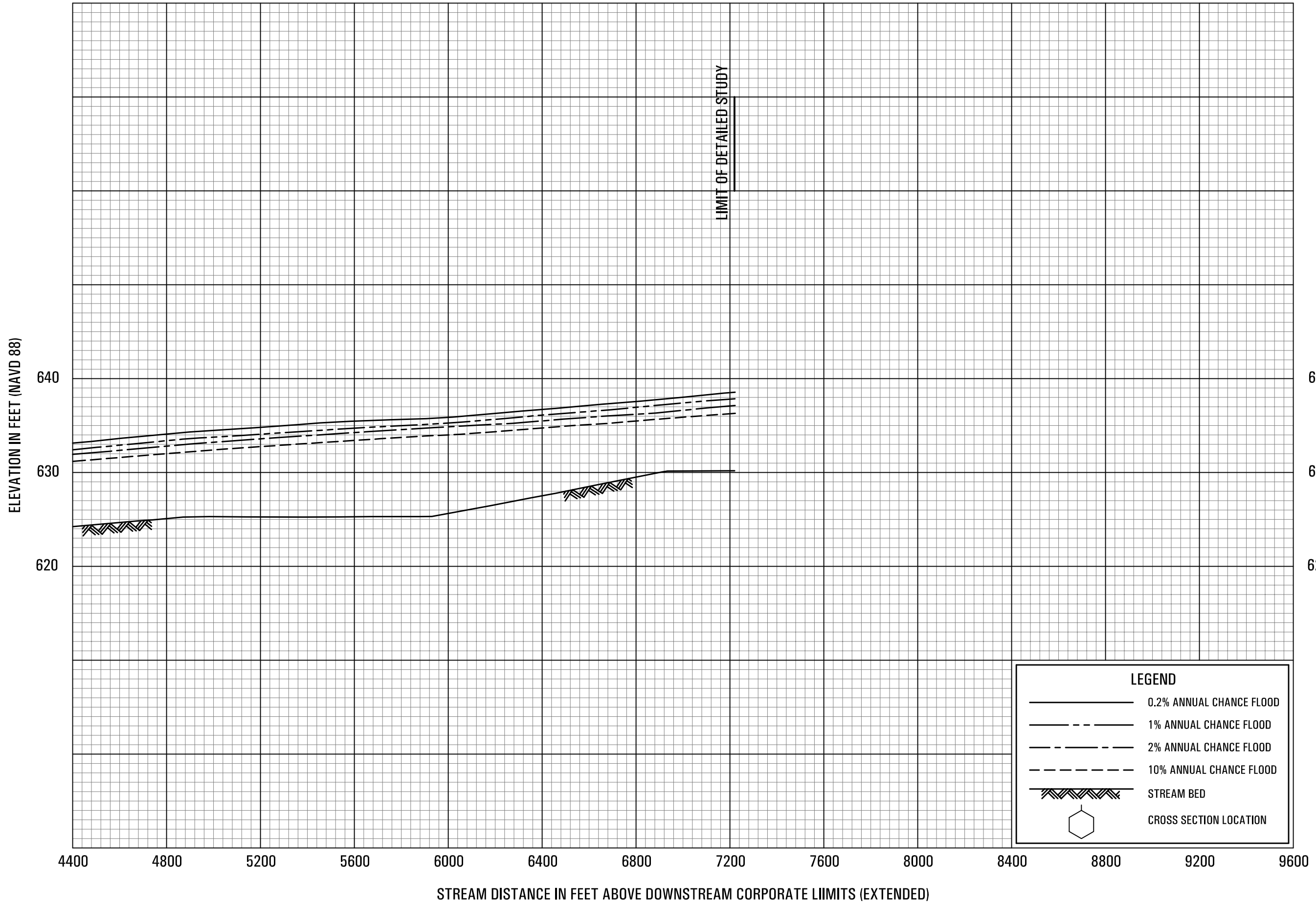
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GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

FLOOD PROFILES
 ALLIGATOR CREEK

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630
620

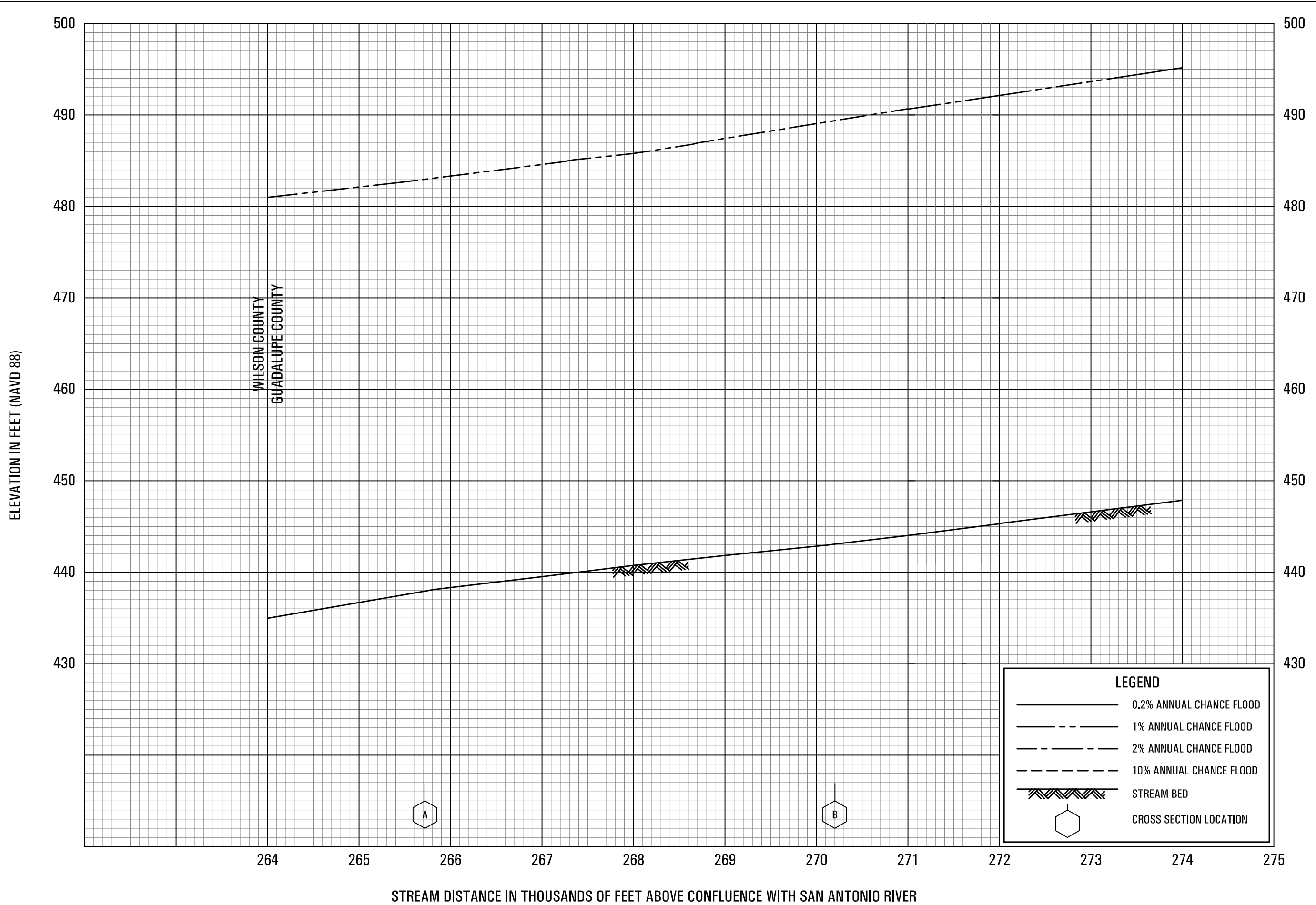
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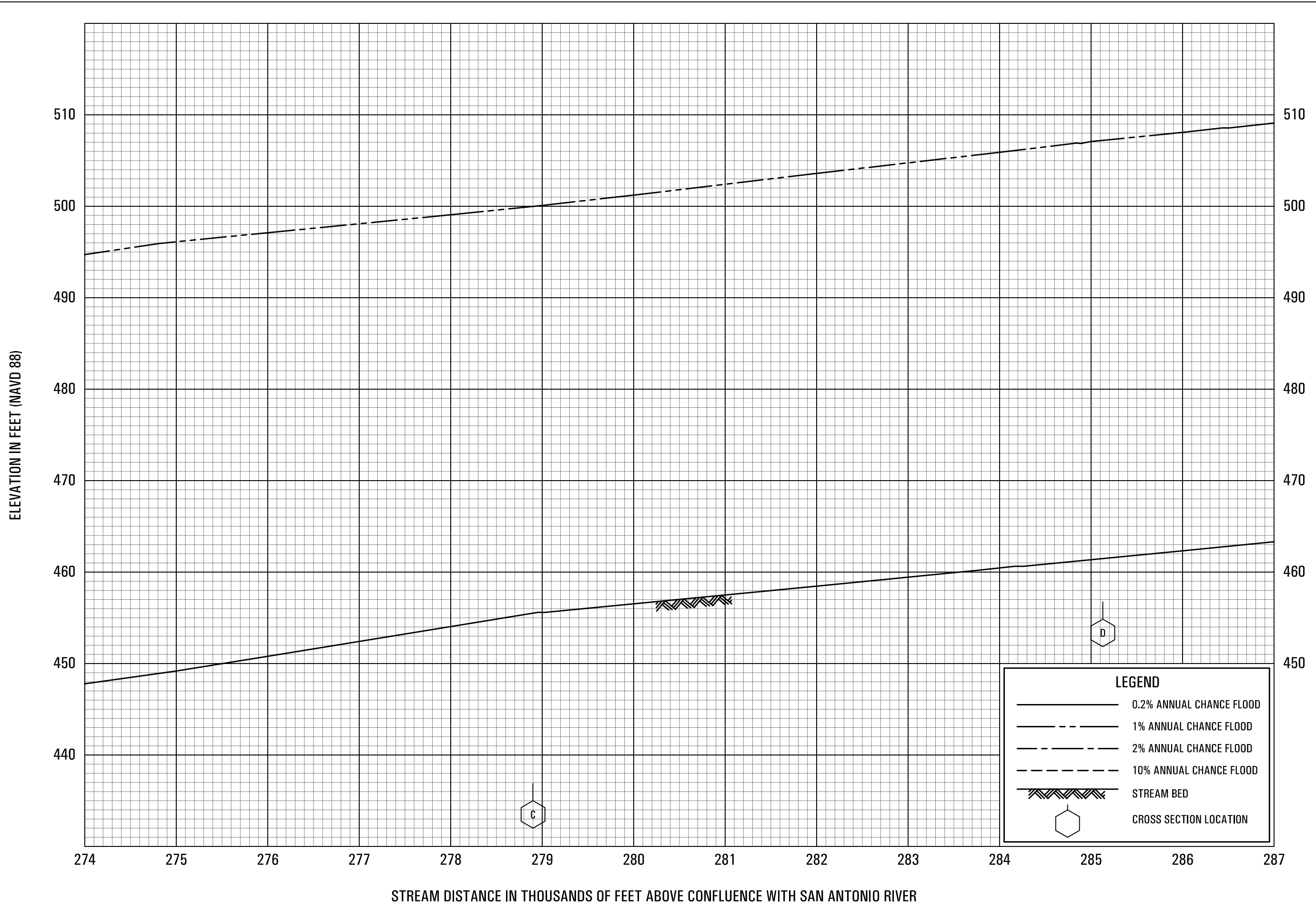
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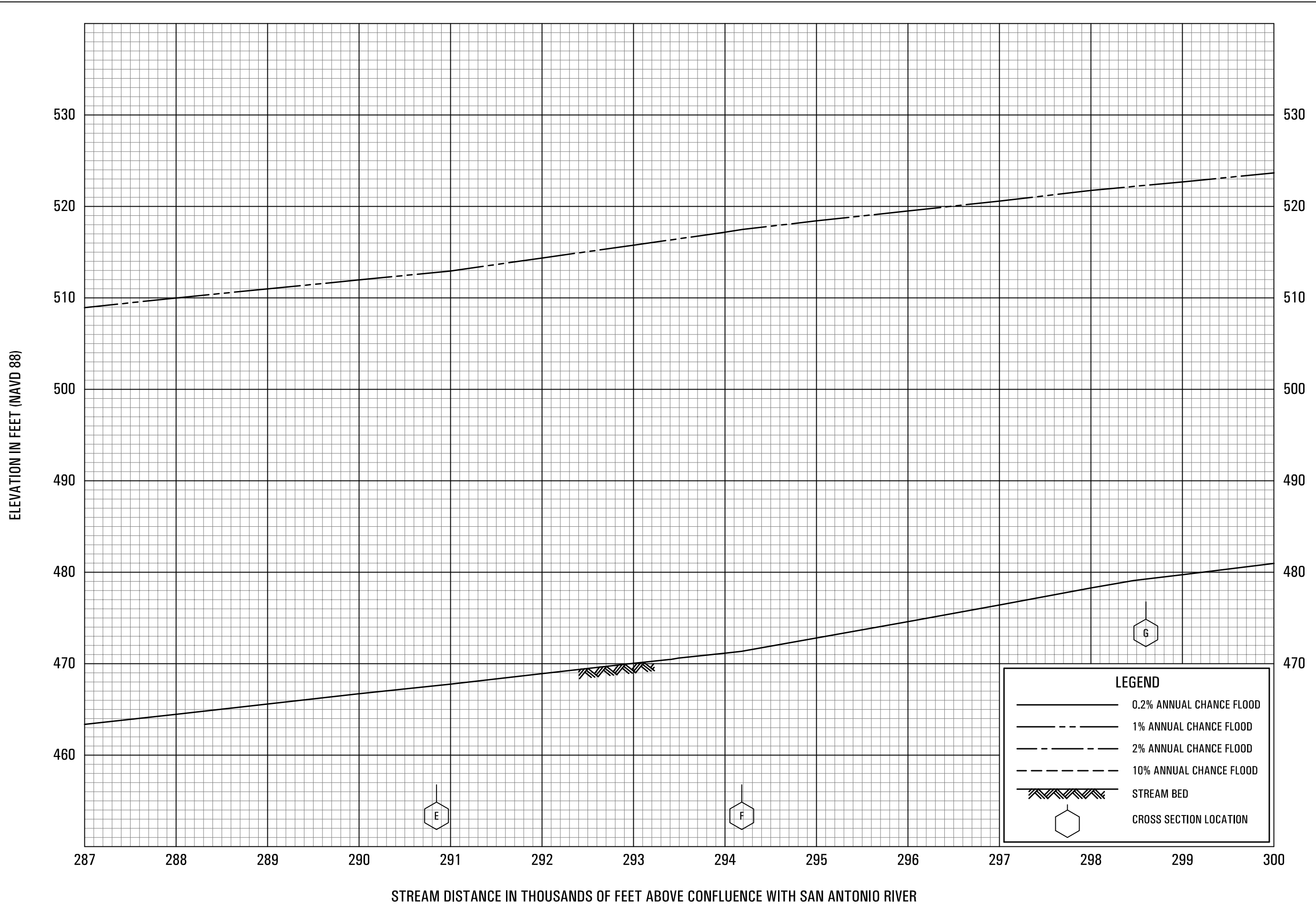


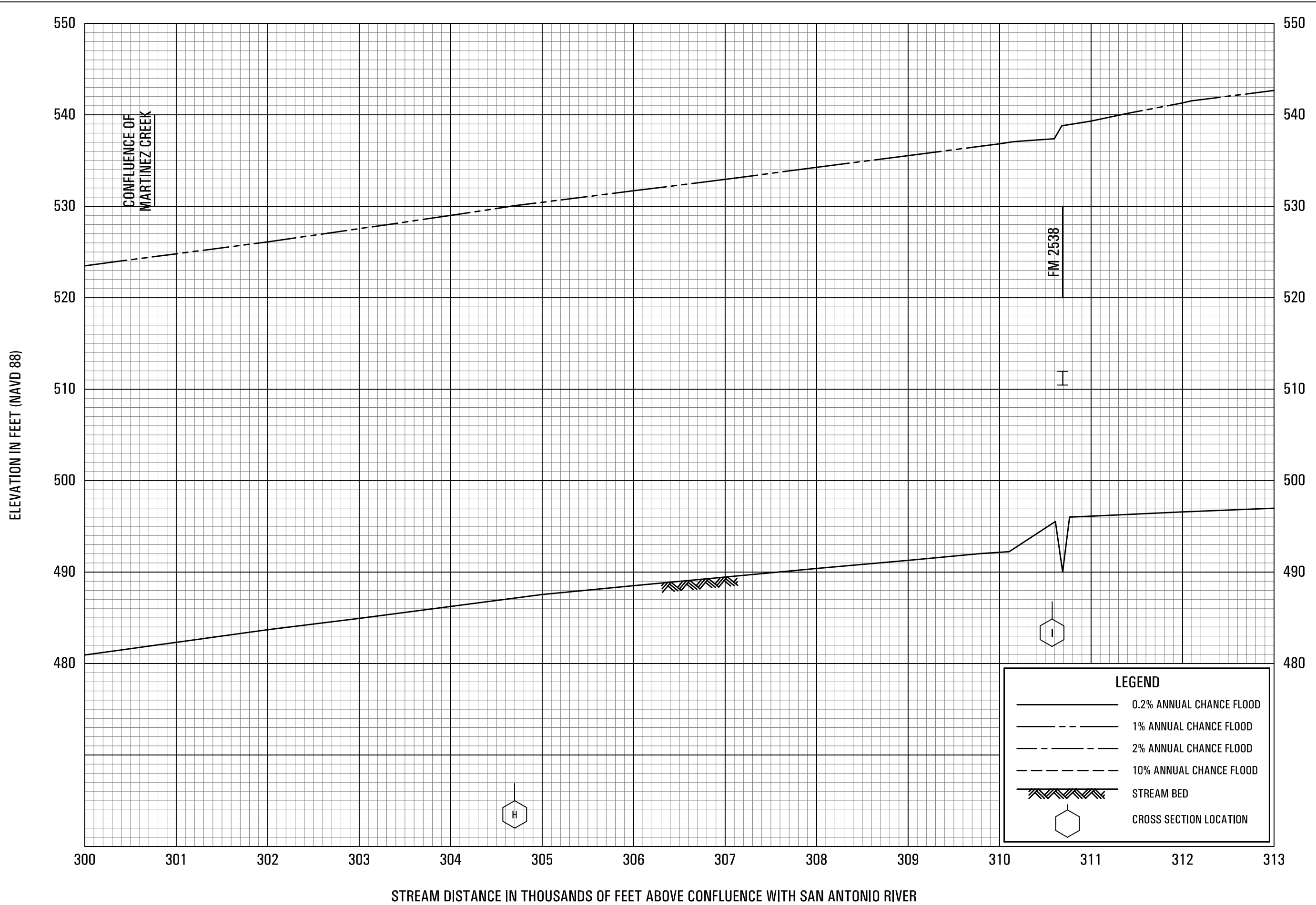
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ALLIGATOR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS





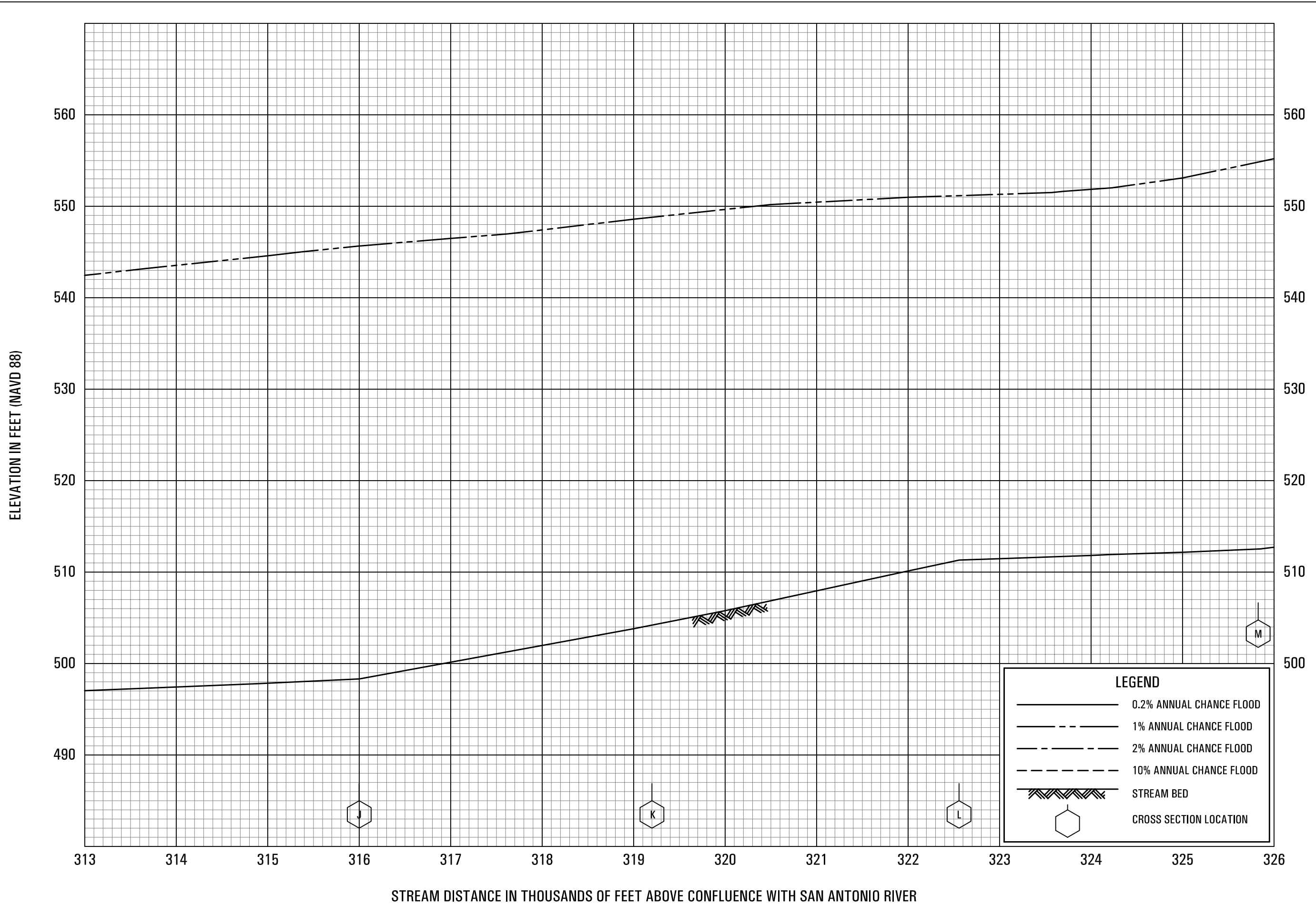




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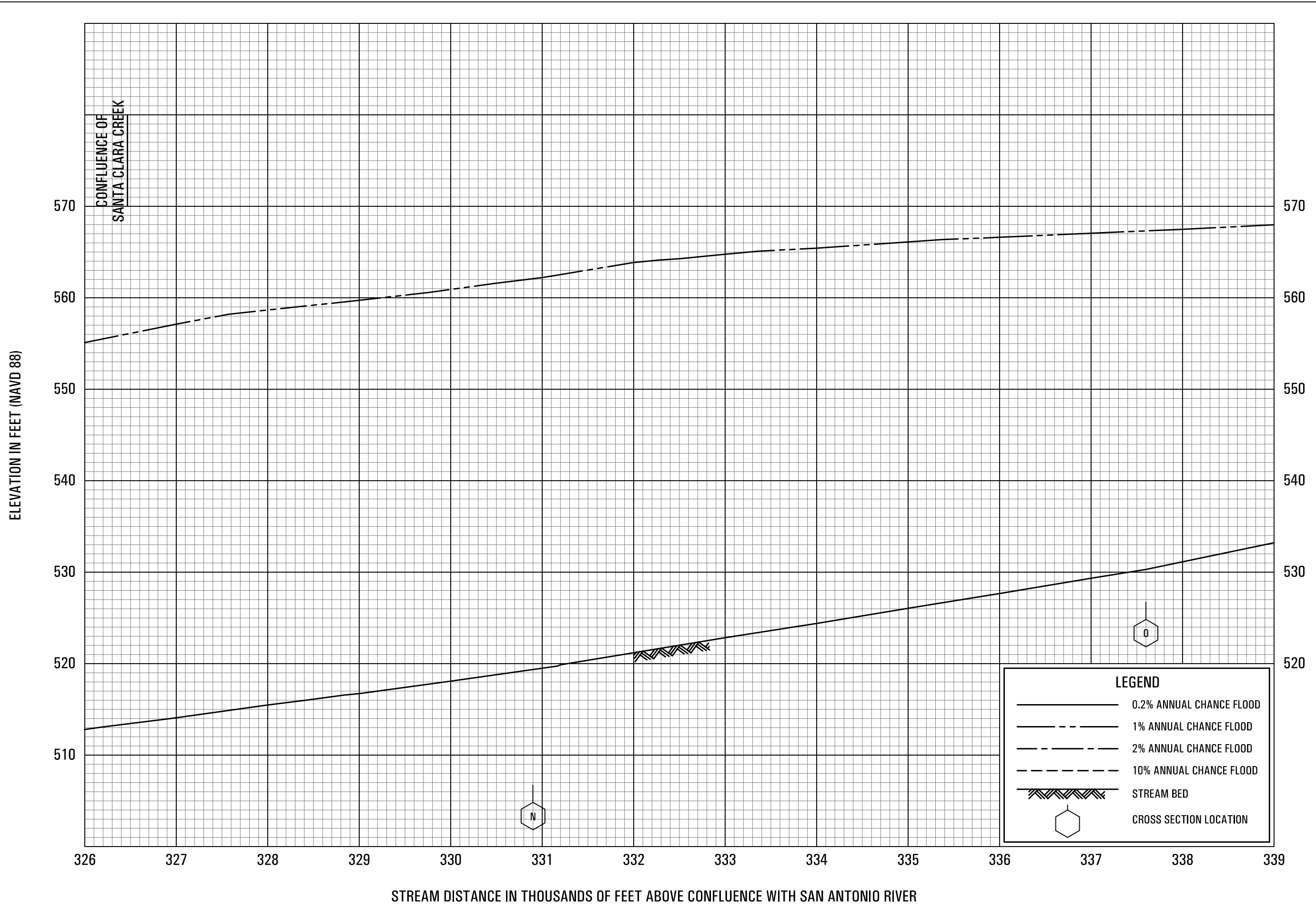
CIBOLO CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**



FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

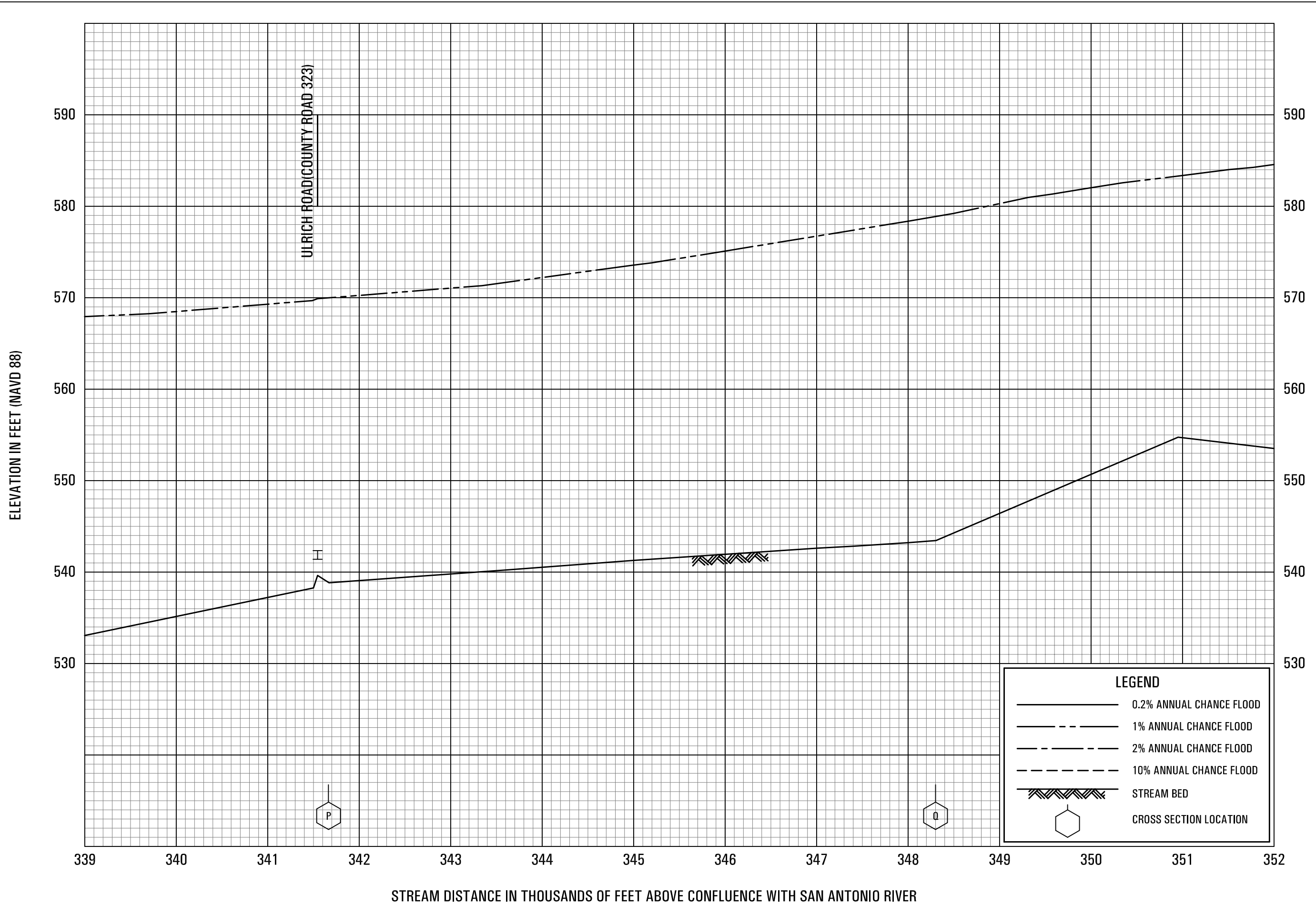
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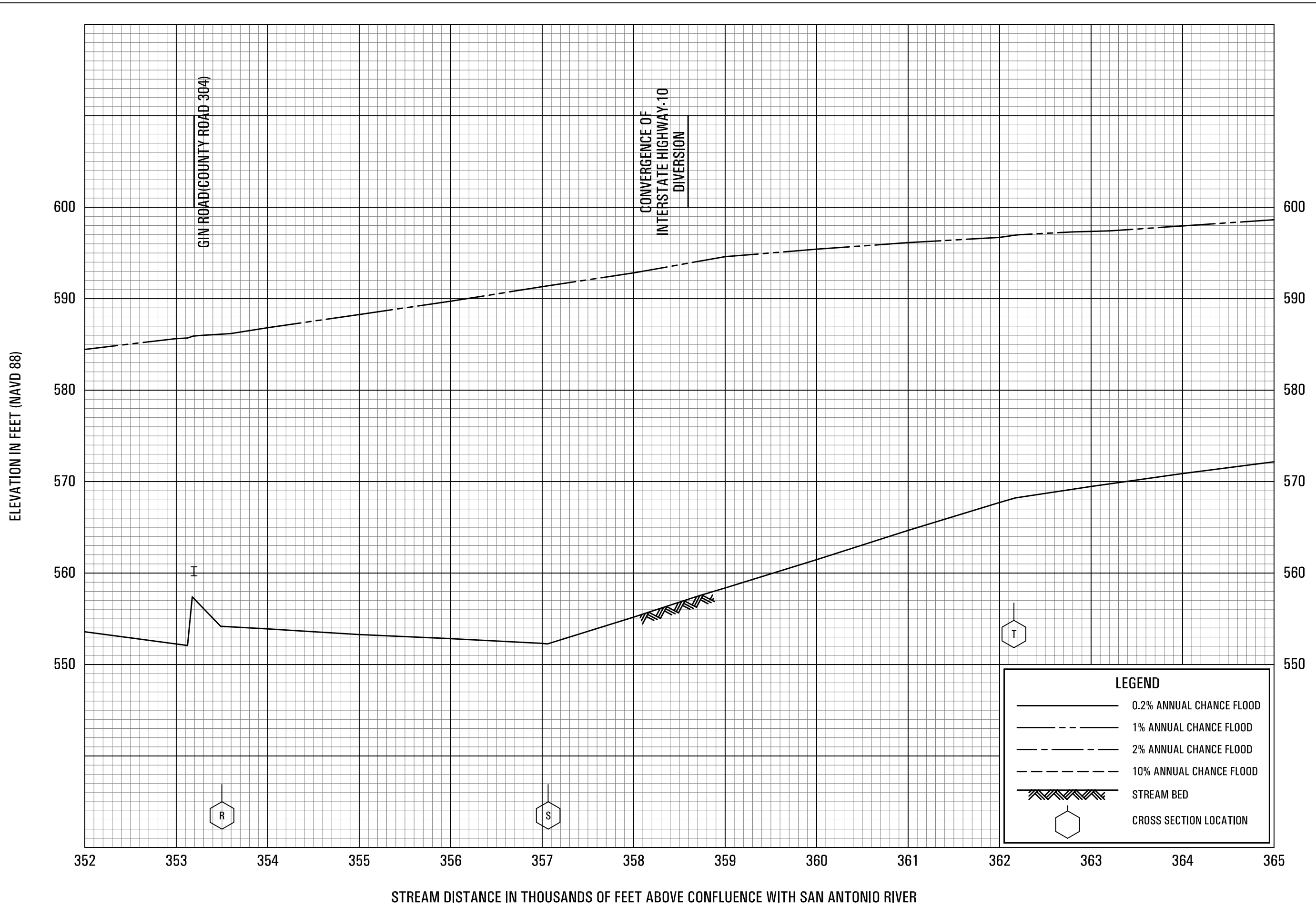


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CIBOLO CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**





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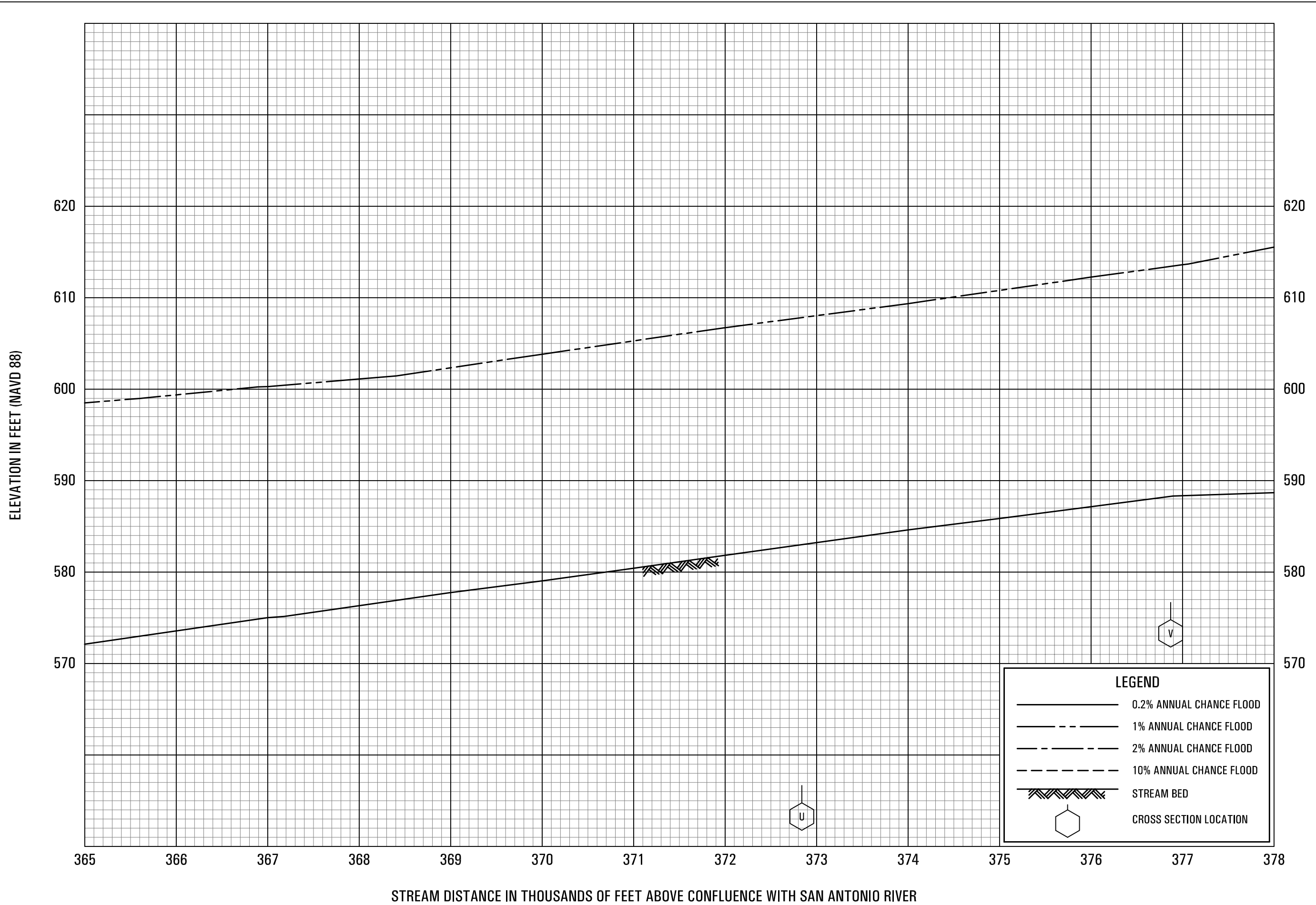
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FEDERAL EMERGENCY MANAGEMENT AGENCY

GUADALUPE COUNTY, TX

AND INCORPORATED AREAS

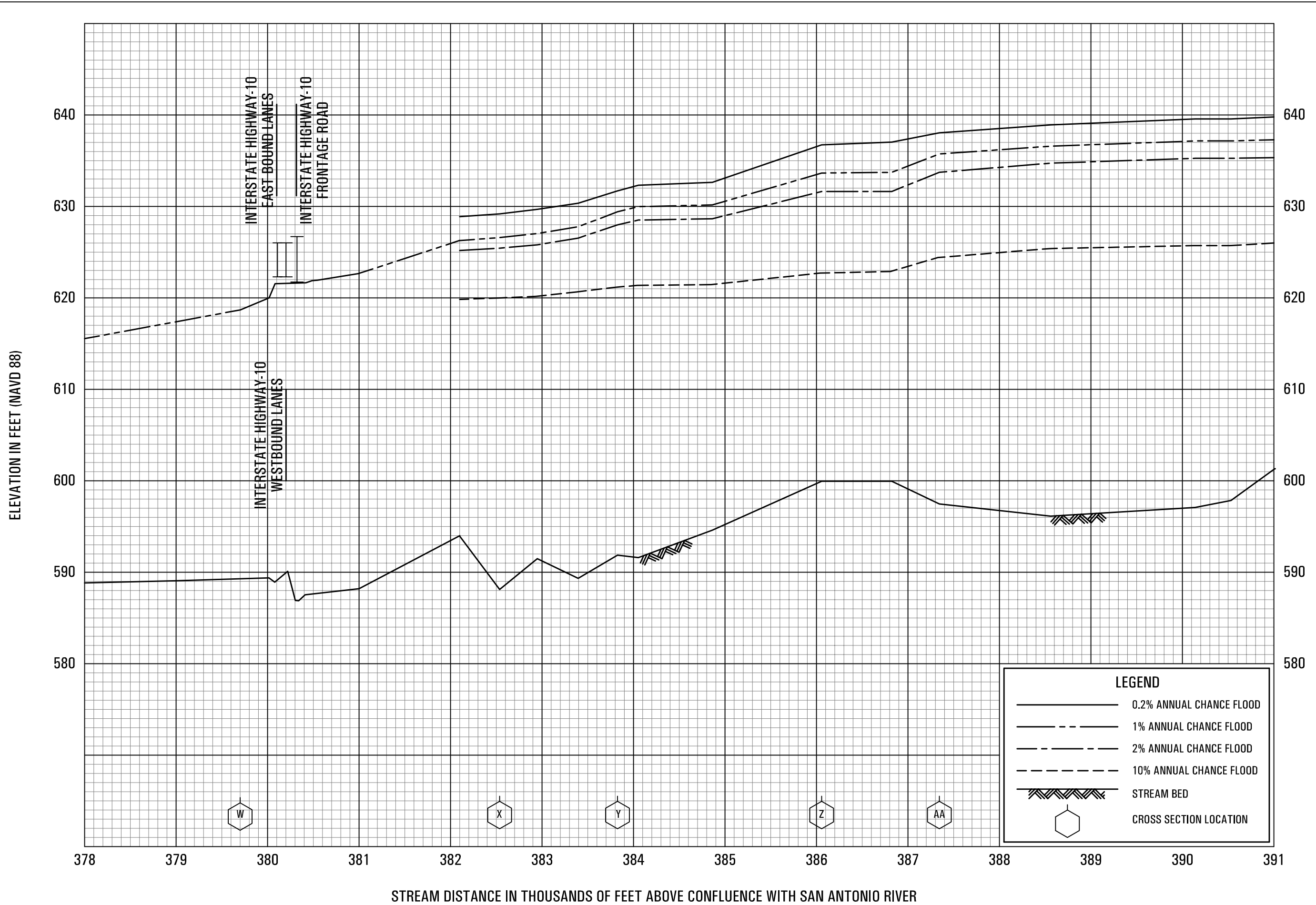
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FLOOD PROFILES

CIBOLO CREEK

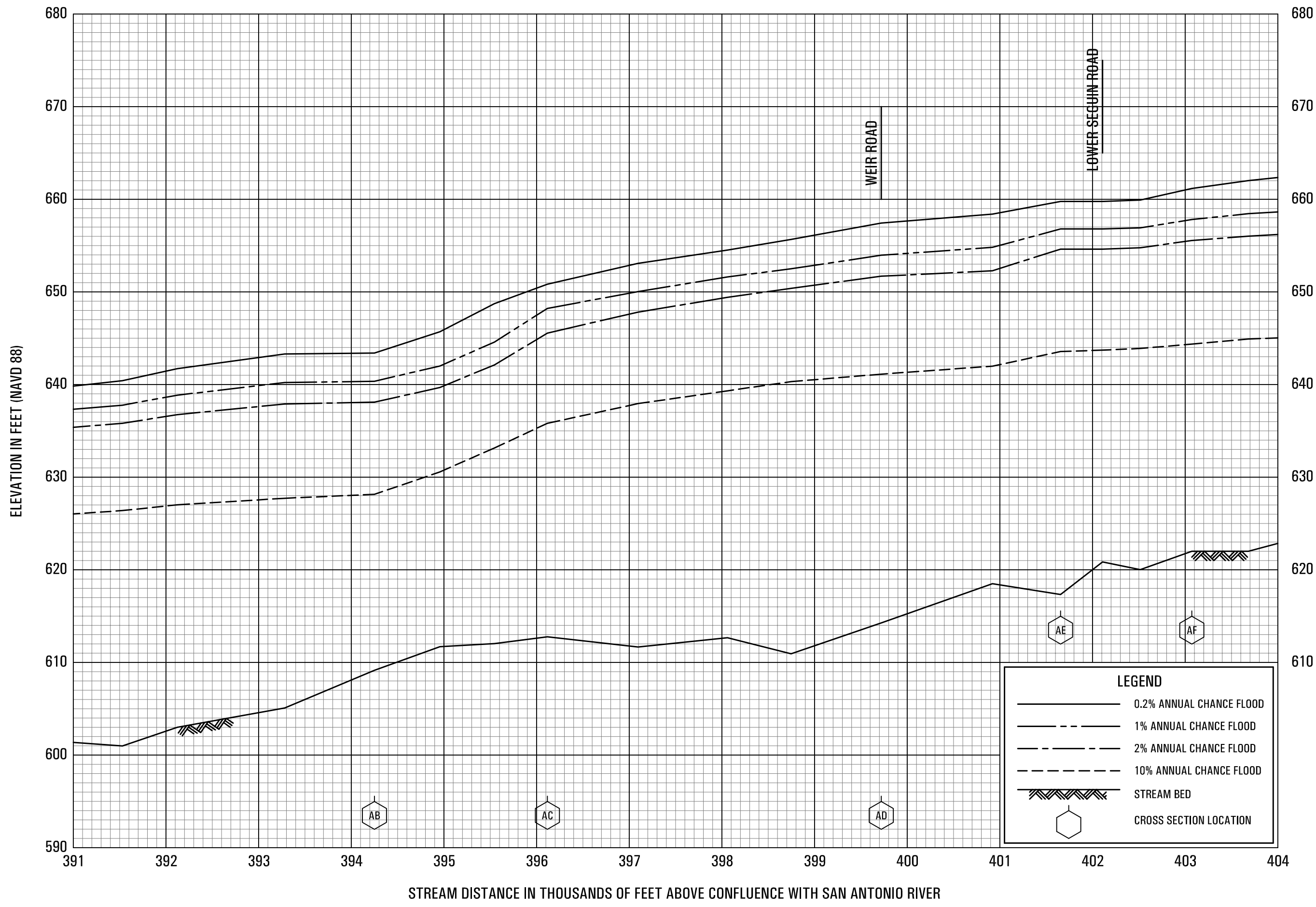
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GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**



FLOOD PROFILES

CIBOLO CREEK

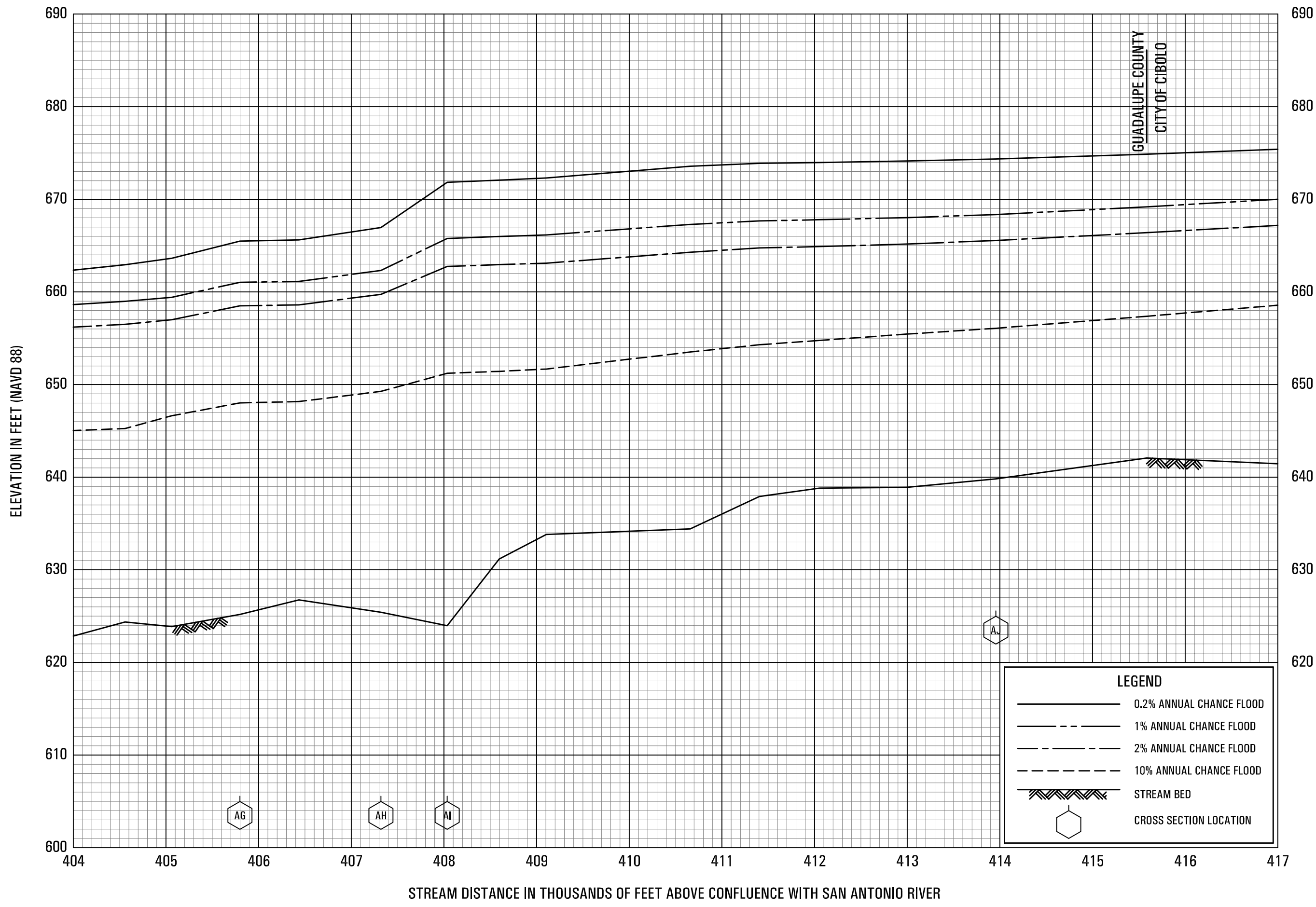
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GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**



FLOOD PROFILES
CIBOLO CREEK

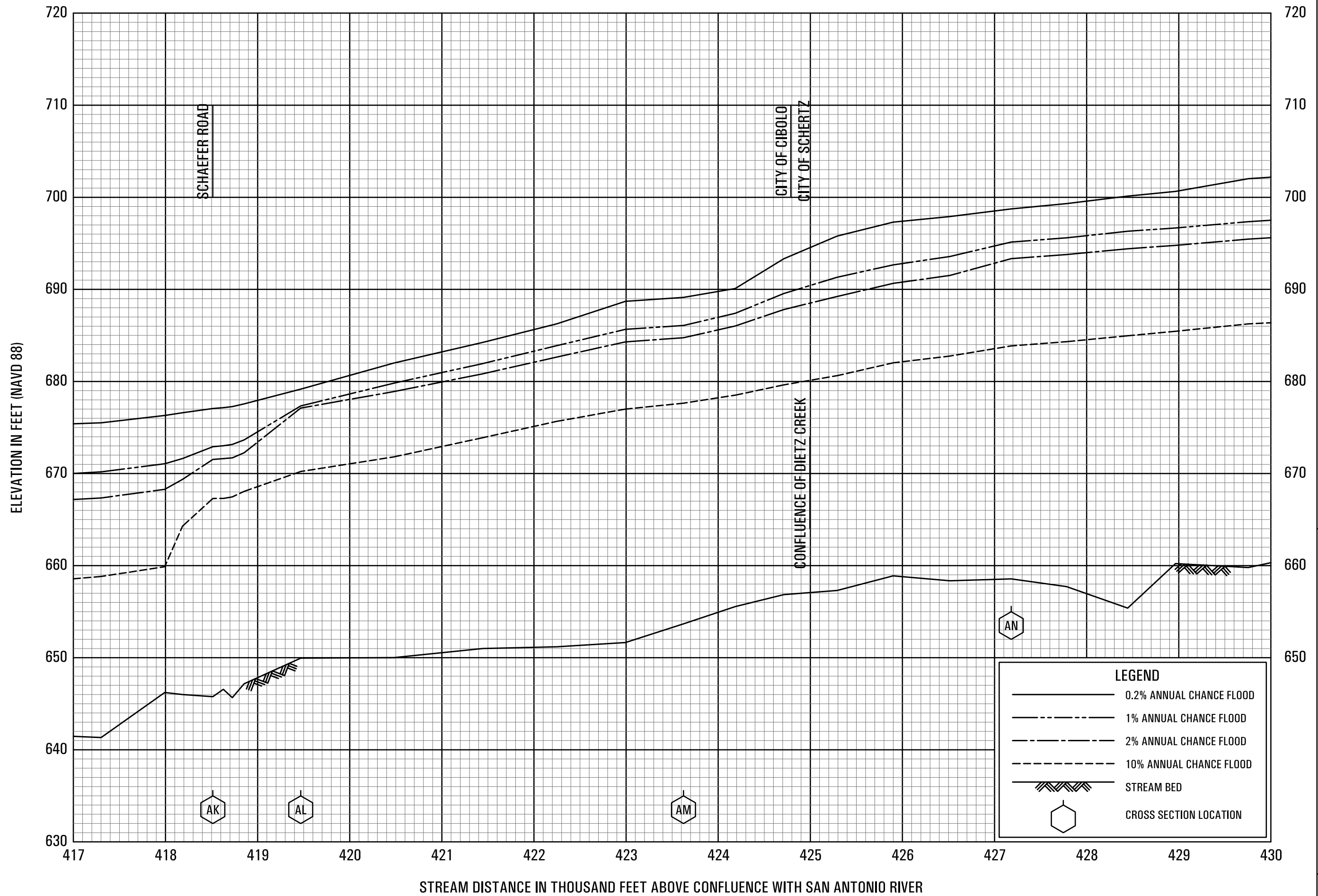
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

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FLOOD PROFILES
CIBOLO CREEK

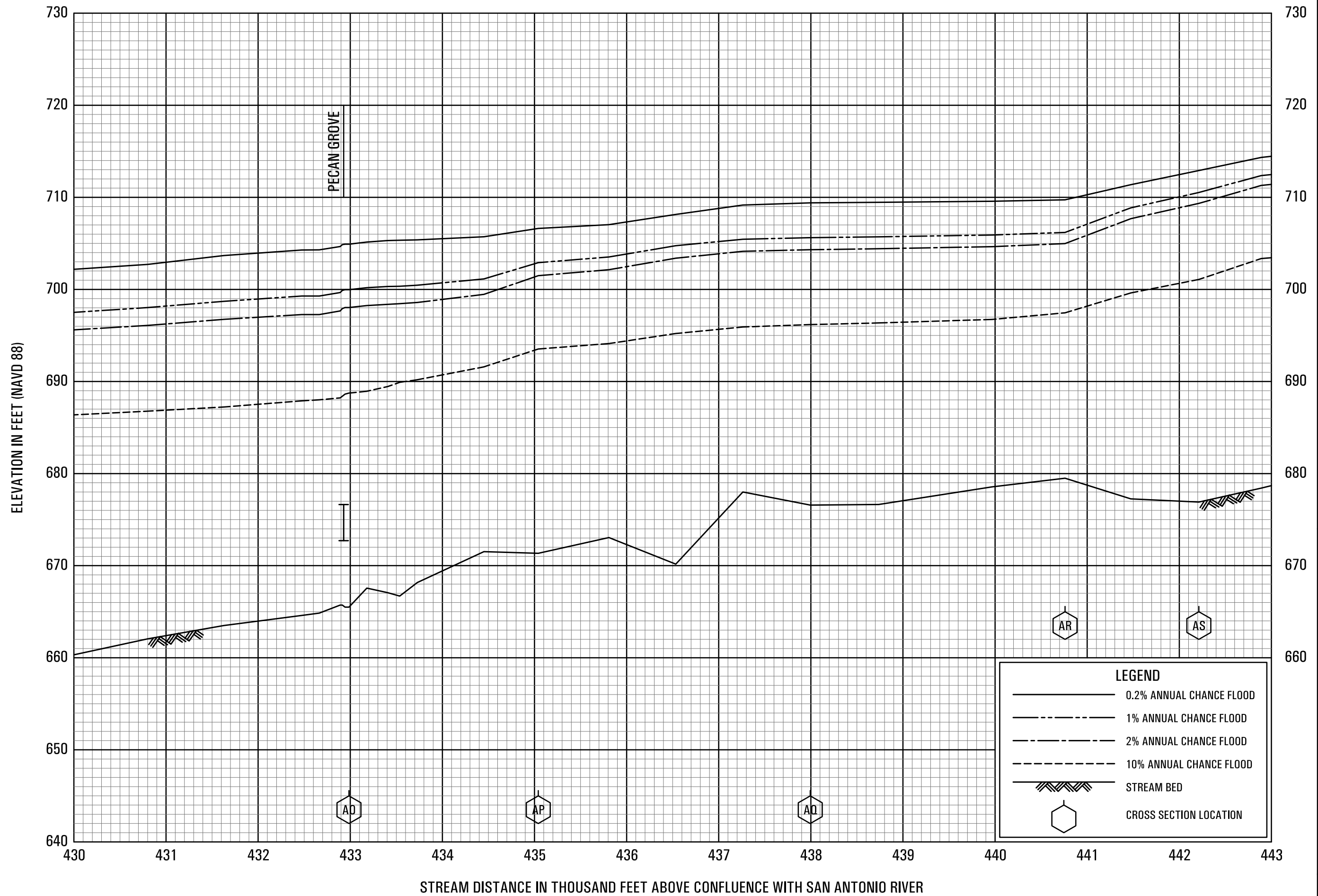
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GUADALUPE COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

CIBOLO CREEK

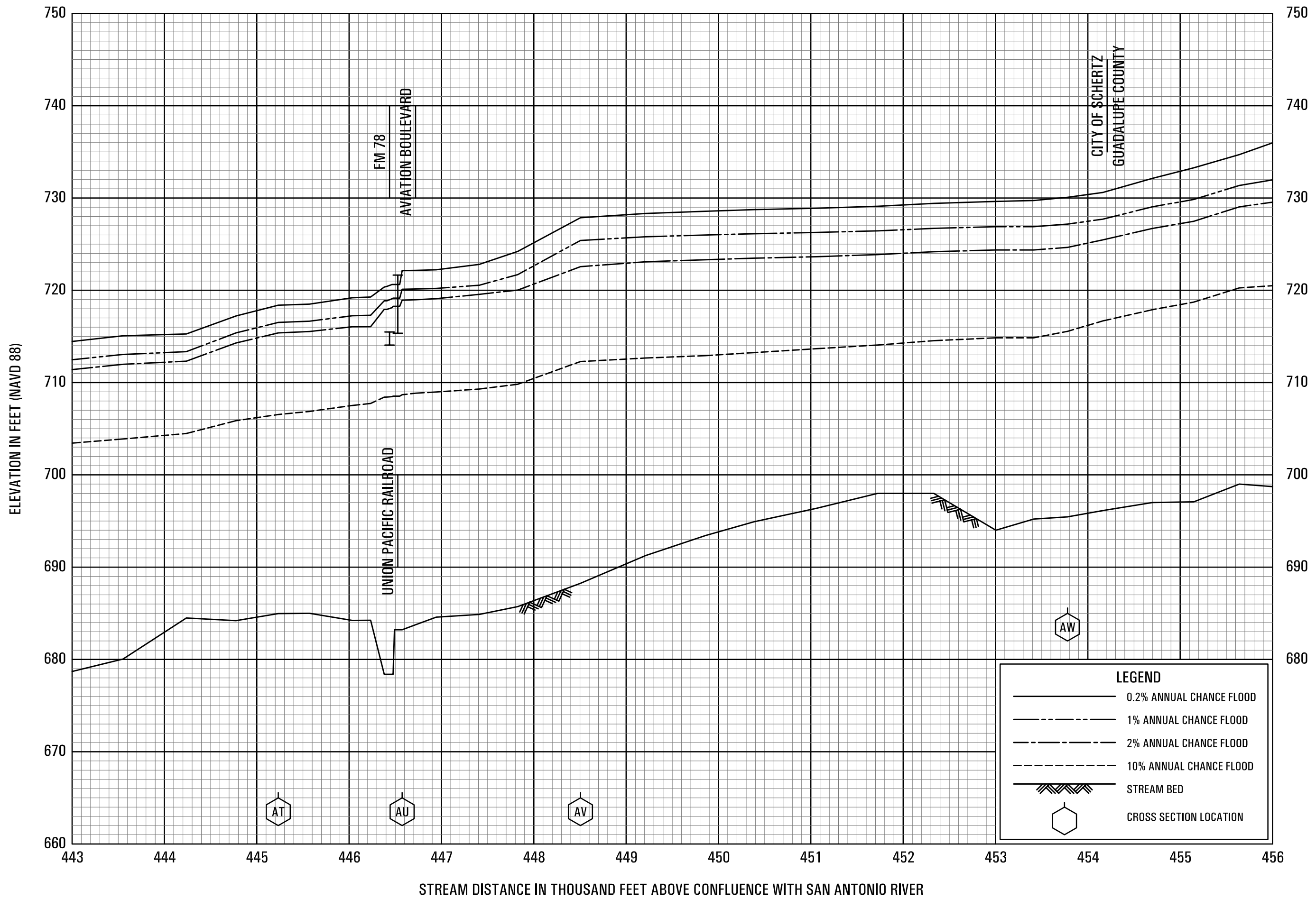
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES

CIBOLO CREEK

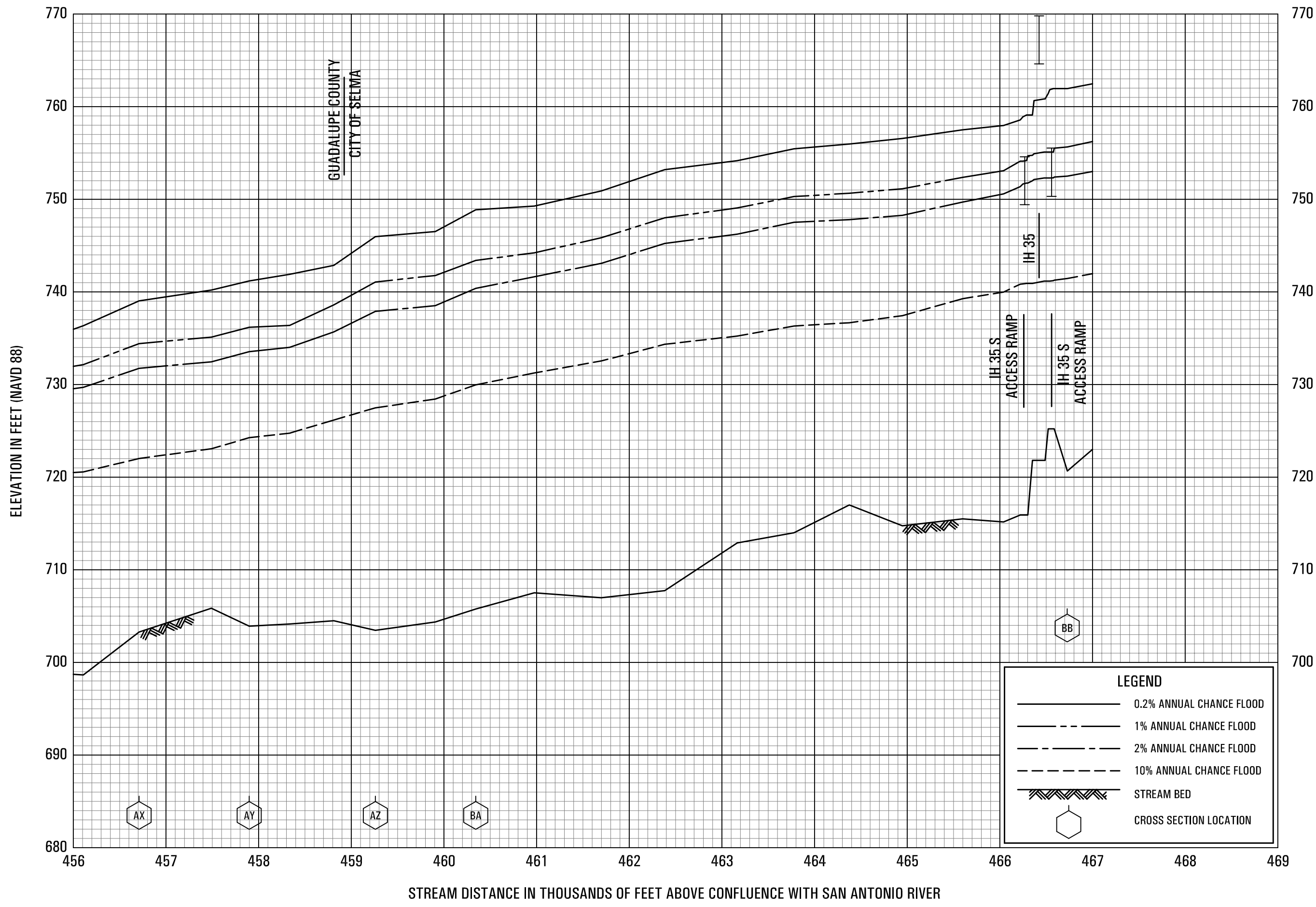
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES

CIBOLO CREEK

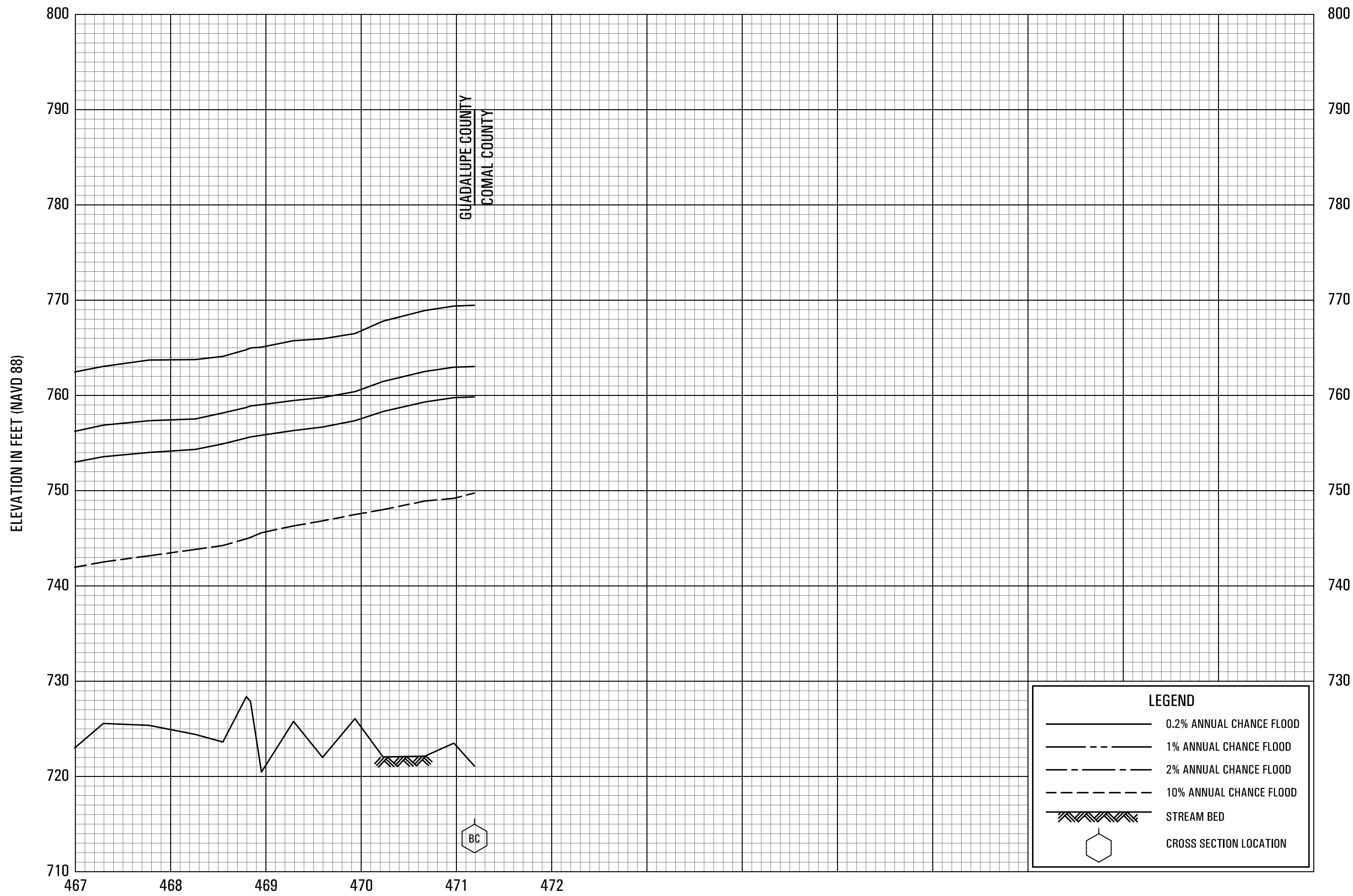
FEDERAL EMERGENCY MANAGEMENT AGENCY
 GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES
CIBOLO CREEK

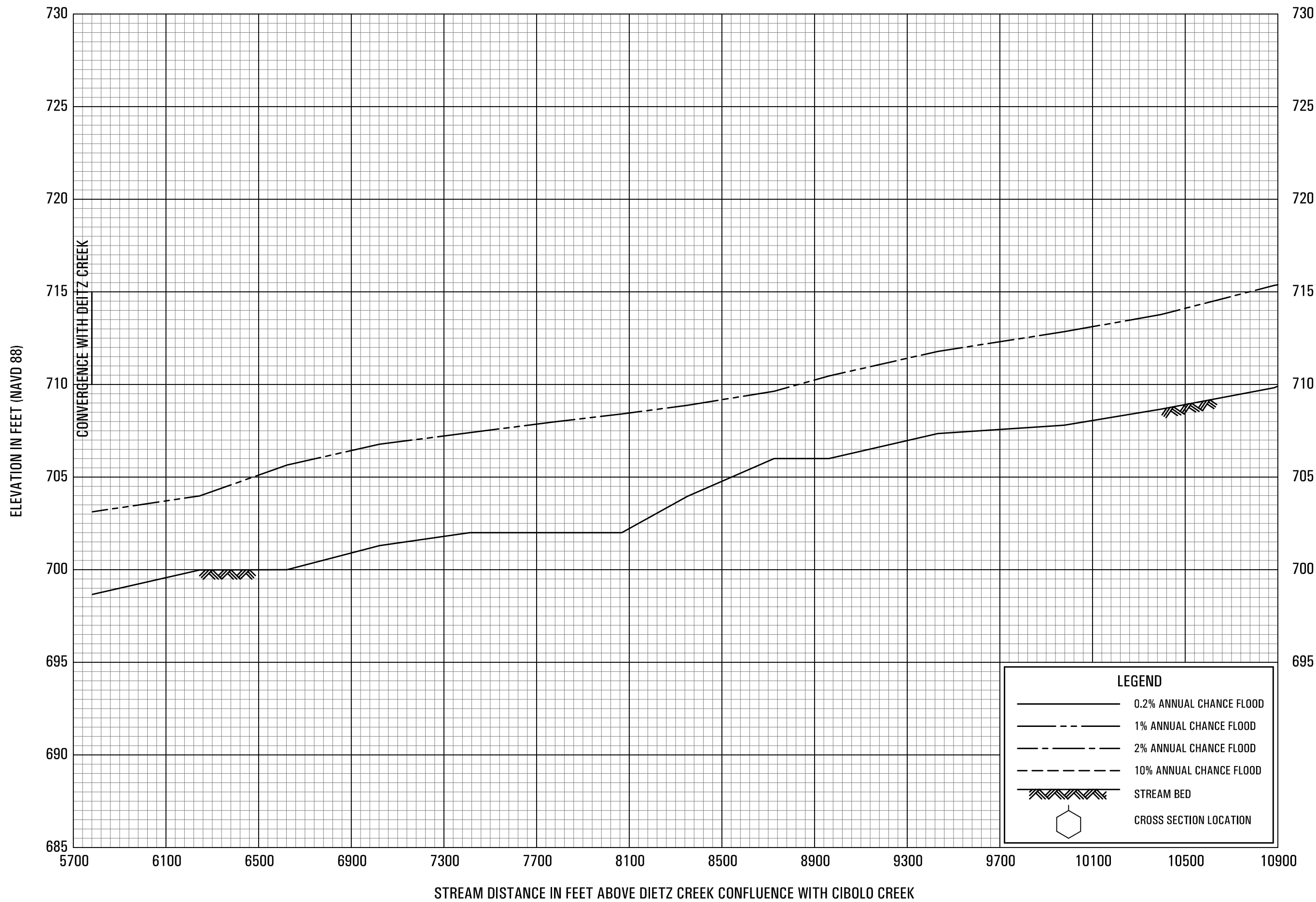
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

21P



FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

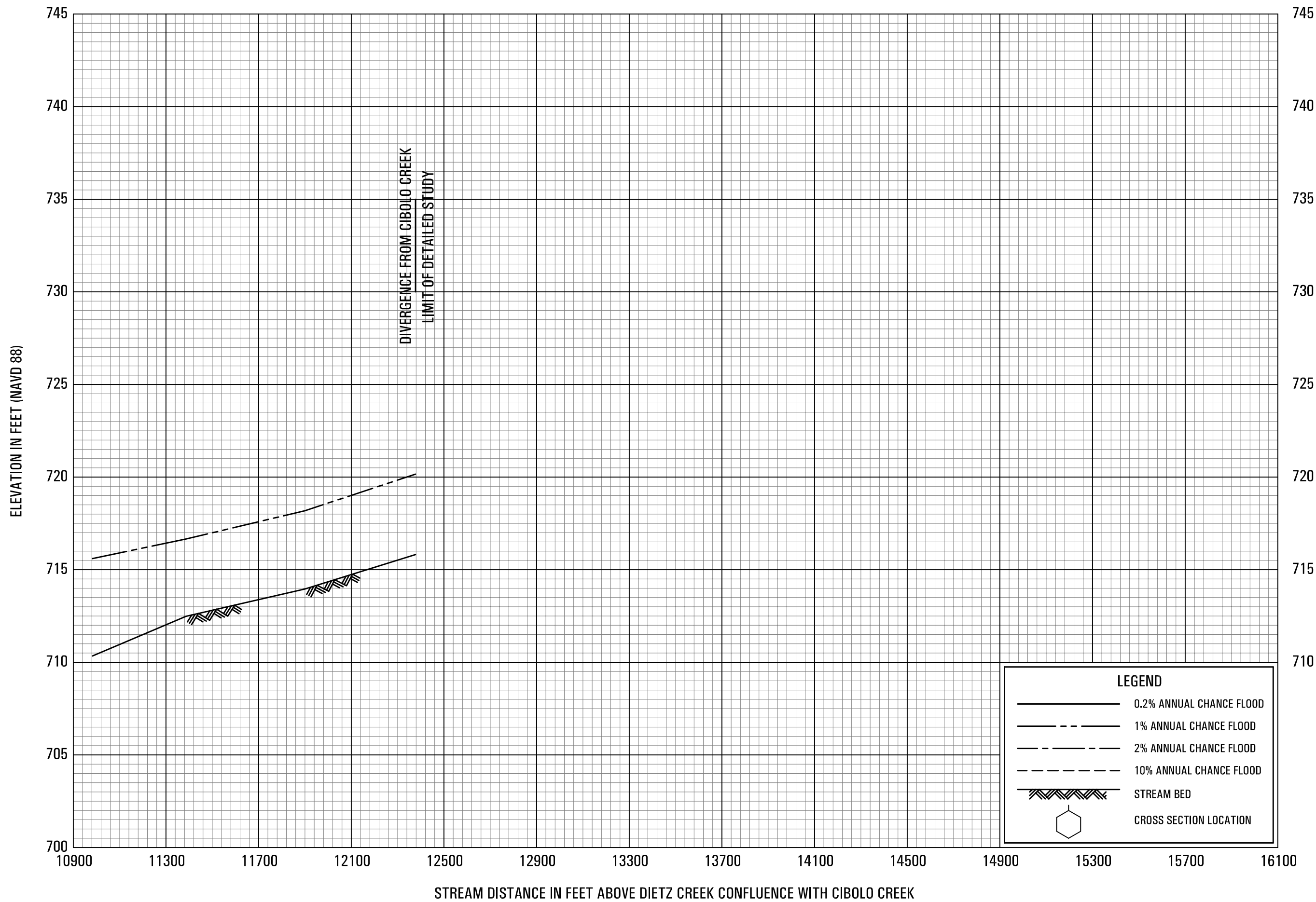
FLOOD PROFILES
 CIBOLO CREEK



FLOOD PROFILES
CIBOLO-DIETZ CREEK DIVERSION

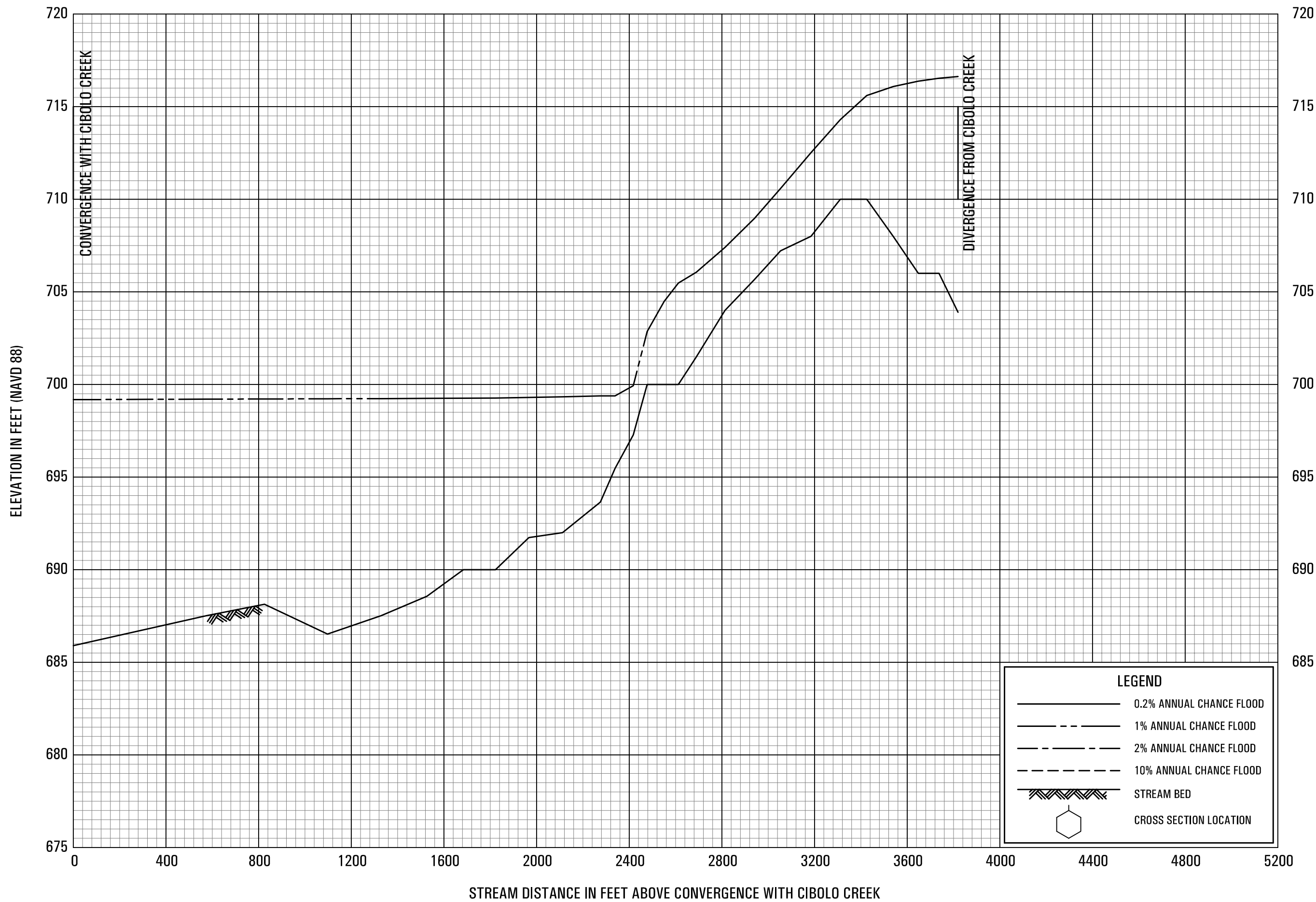
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

23P



FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

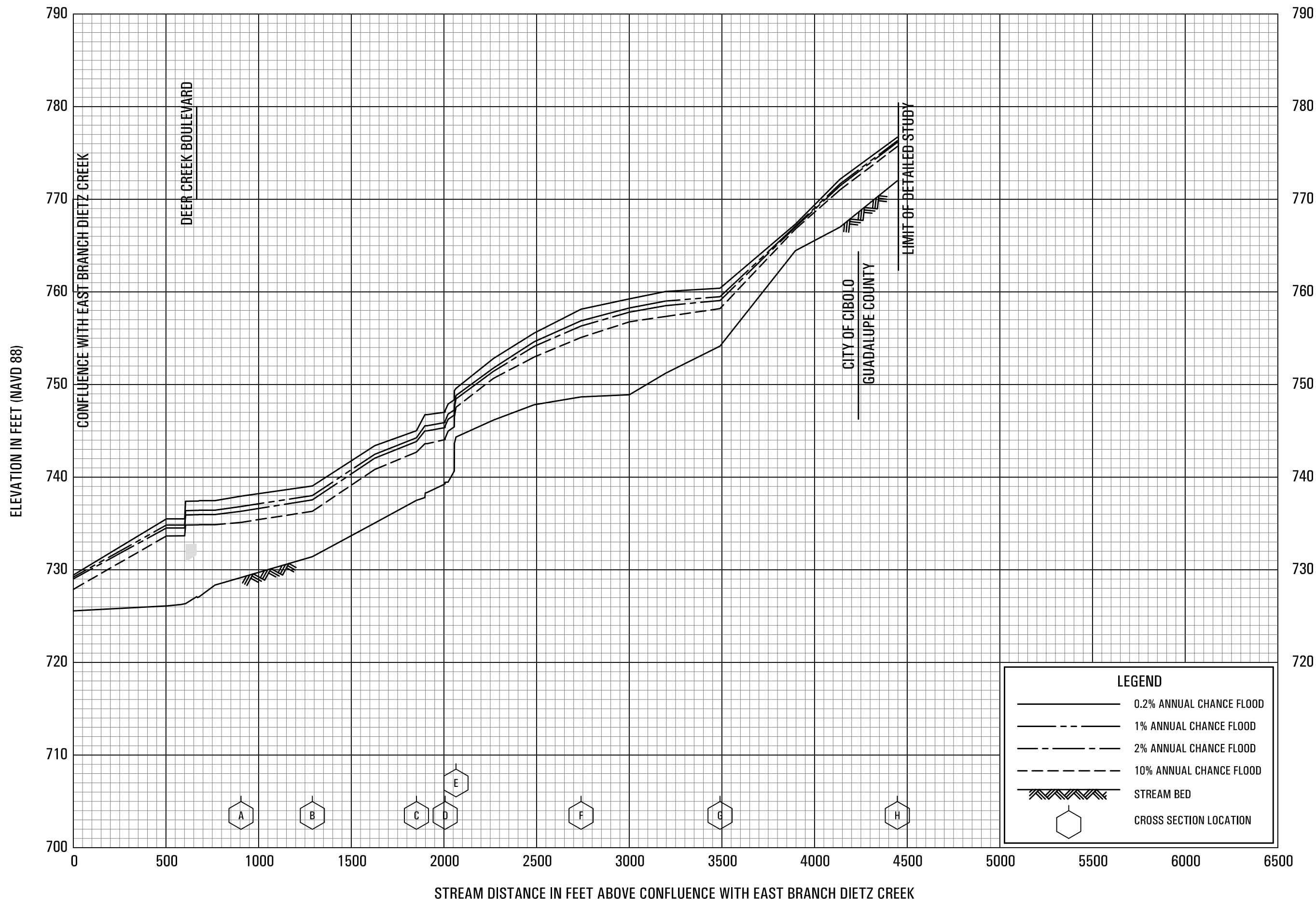
FLOOD PROFILES
 CIBOLO-DIETZ CREEK DIVERSION



FLOOD PROFILES
CIBOLO CREEK LANDFILL DIVERSION

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

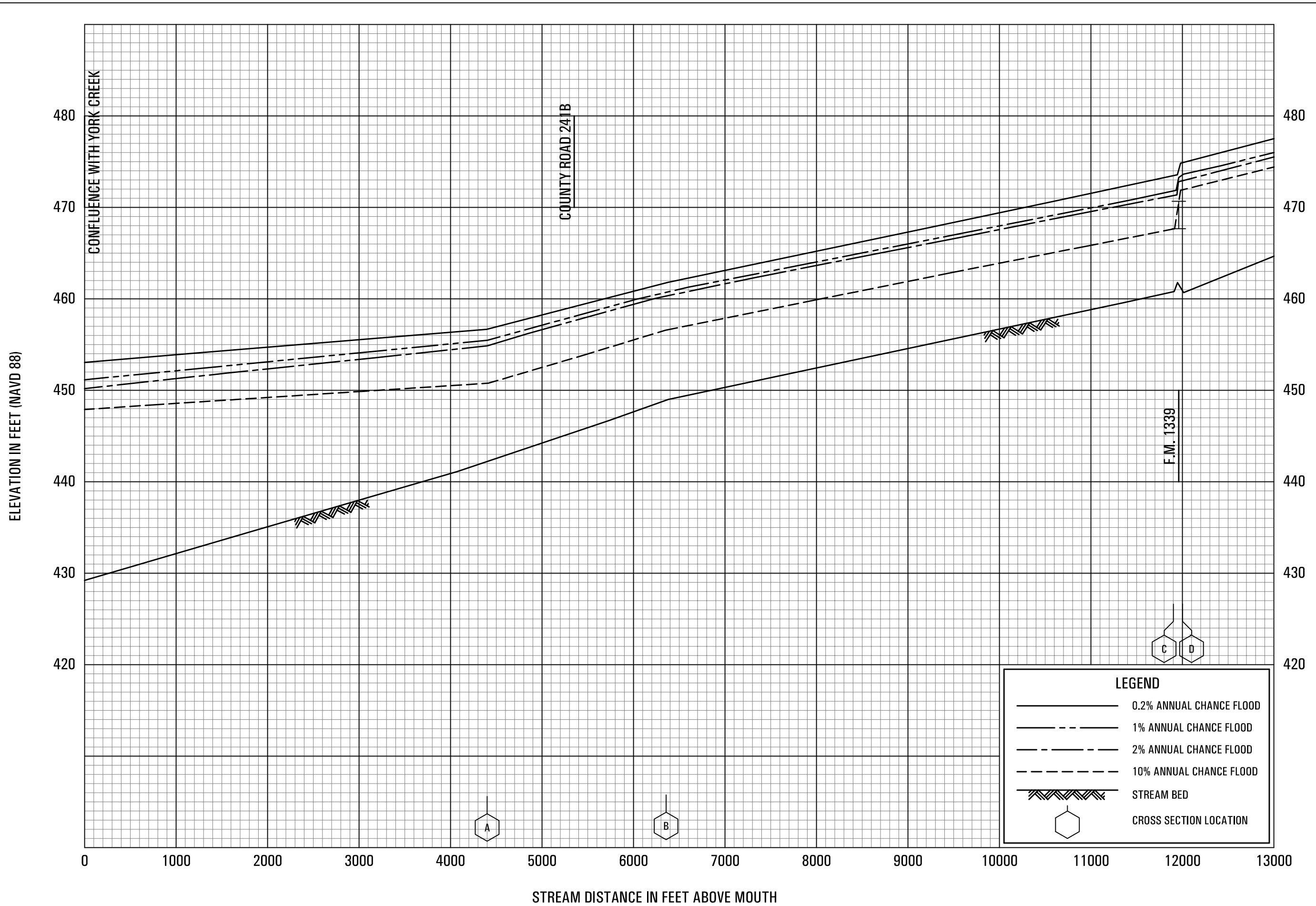
25P



FLOOD PROFILES
CIBOLO CREEK TRIBUTARY NO. 13

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

26P

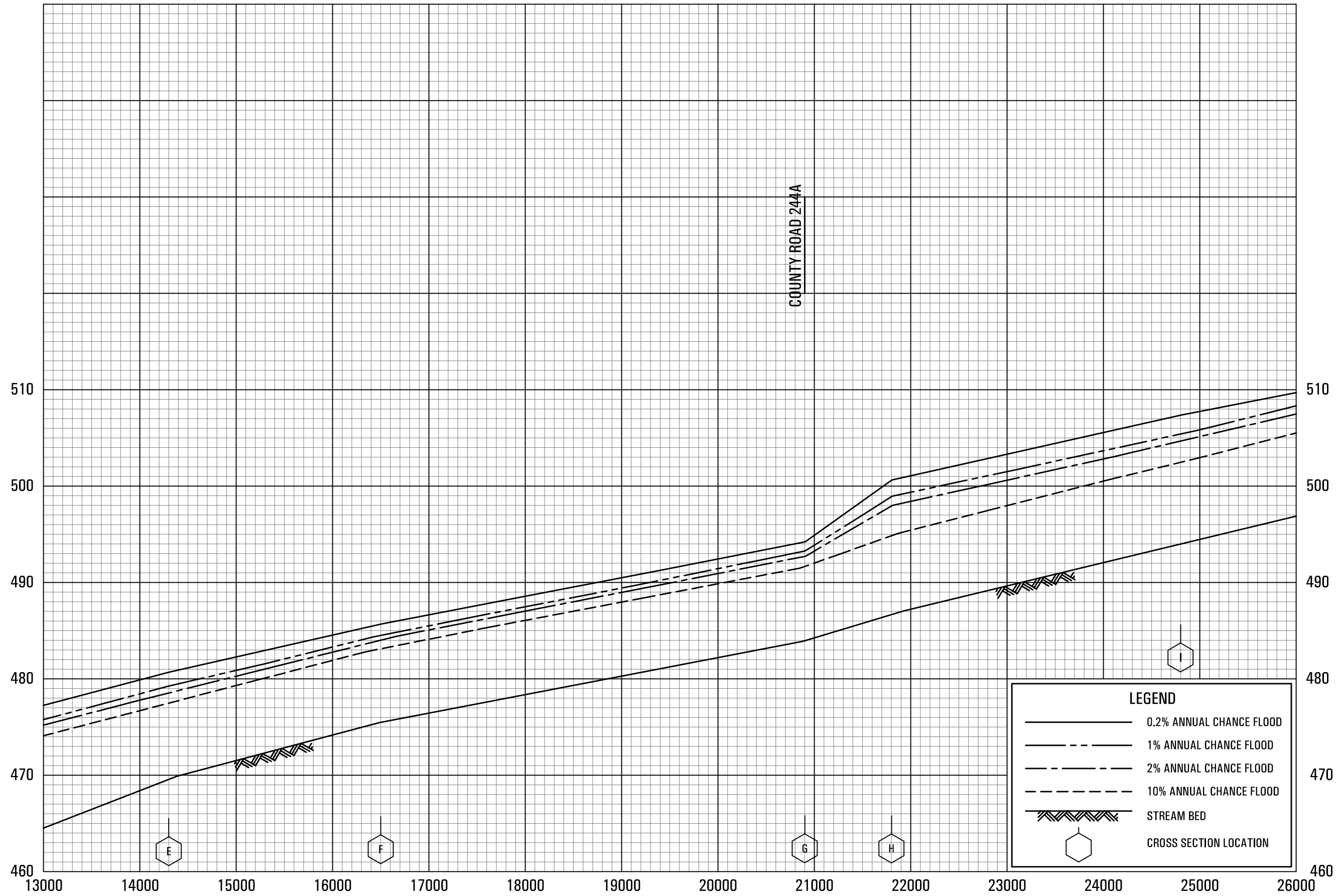


FLOOD PROFILES

COTTONWOOD CREEK NORTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

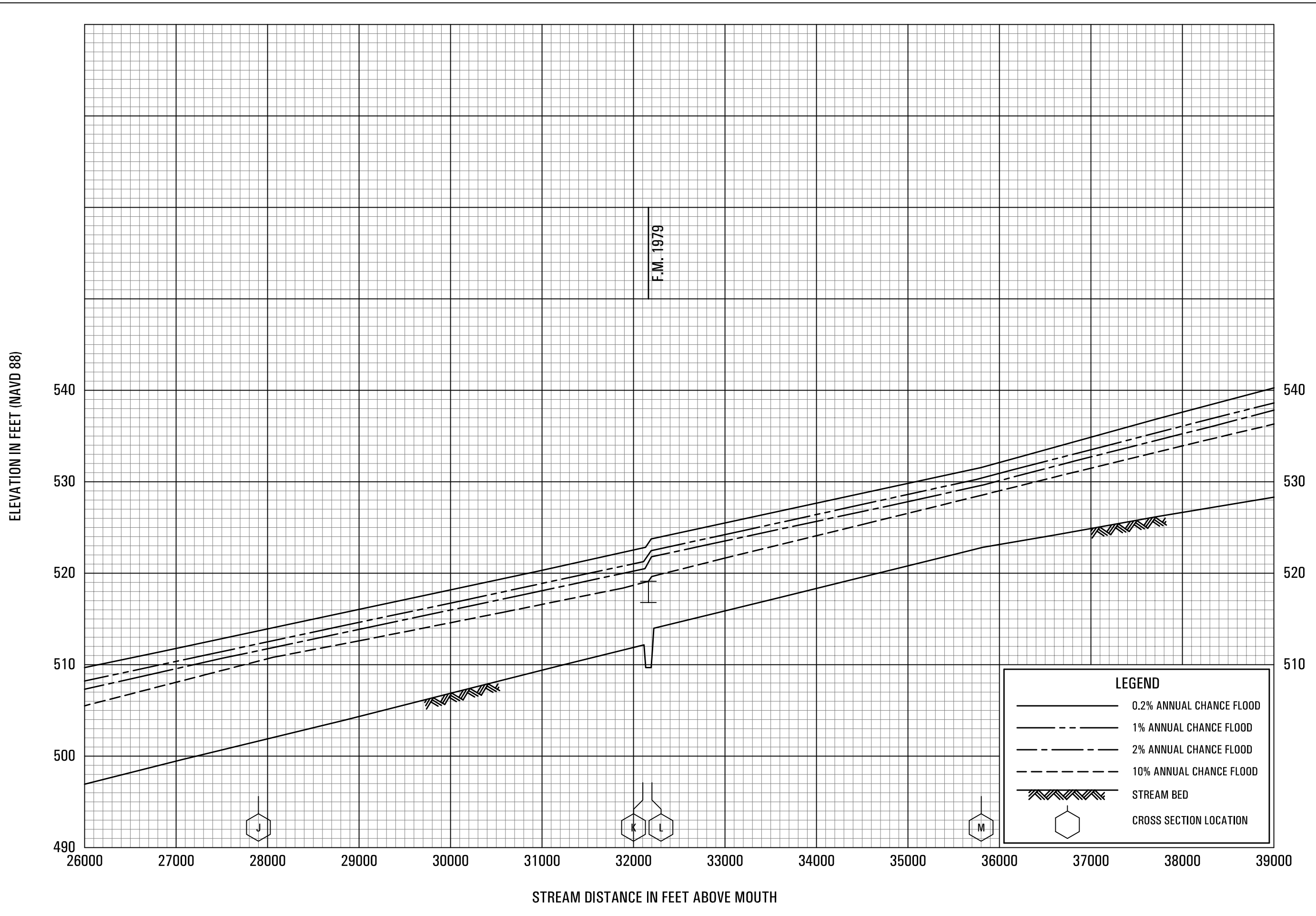


STREAM DISTANCE IN FEET ABOVE MOUTH

FLOOD PROFILES

COTTONWOOD CREEK NORTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

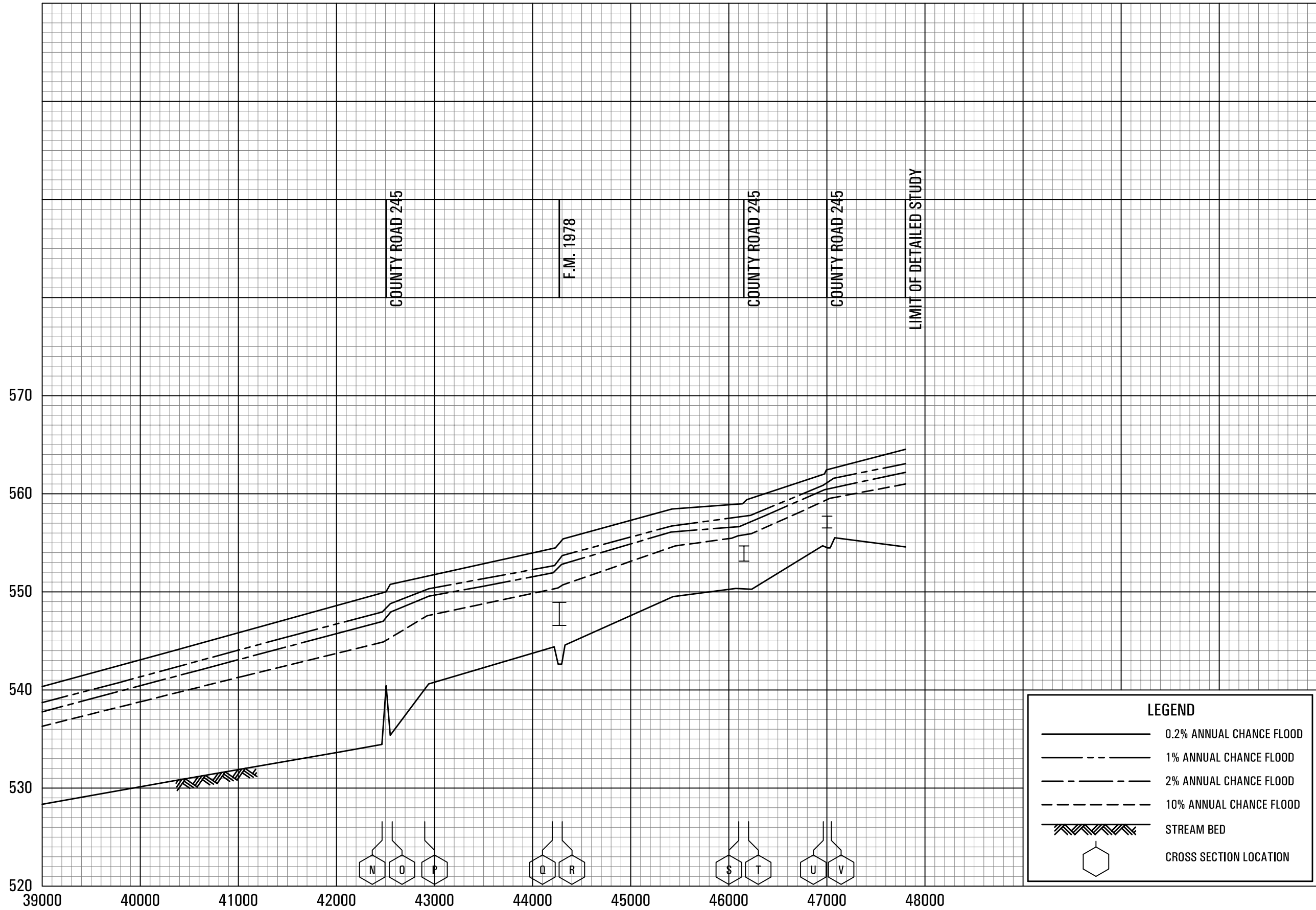


FLOOD PROFILES

COTTONWOOD CREEK NORTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

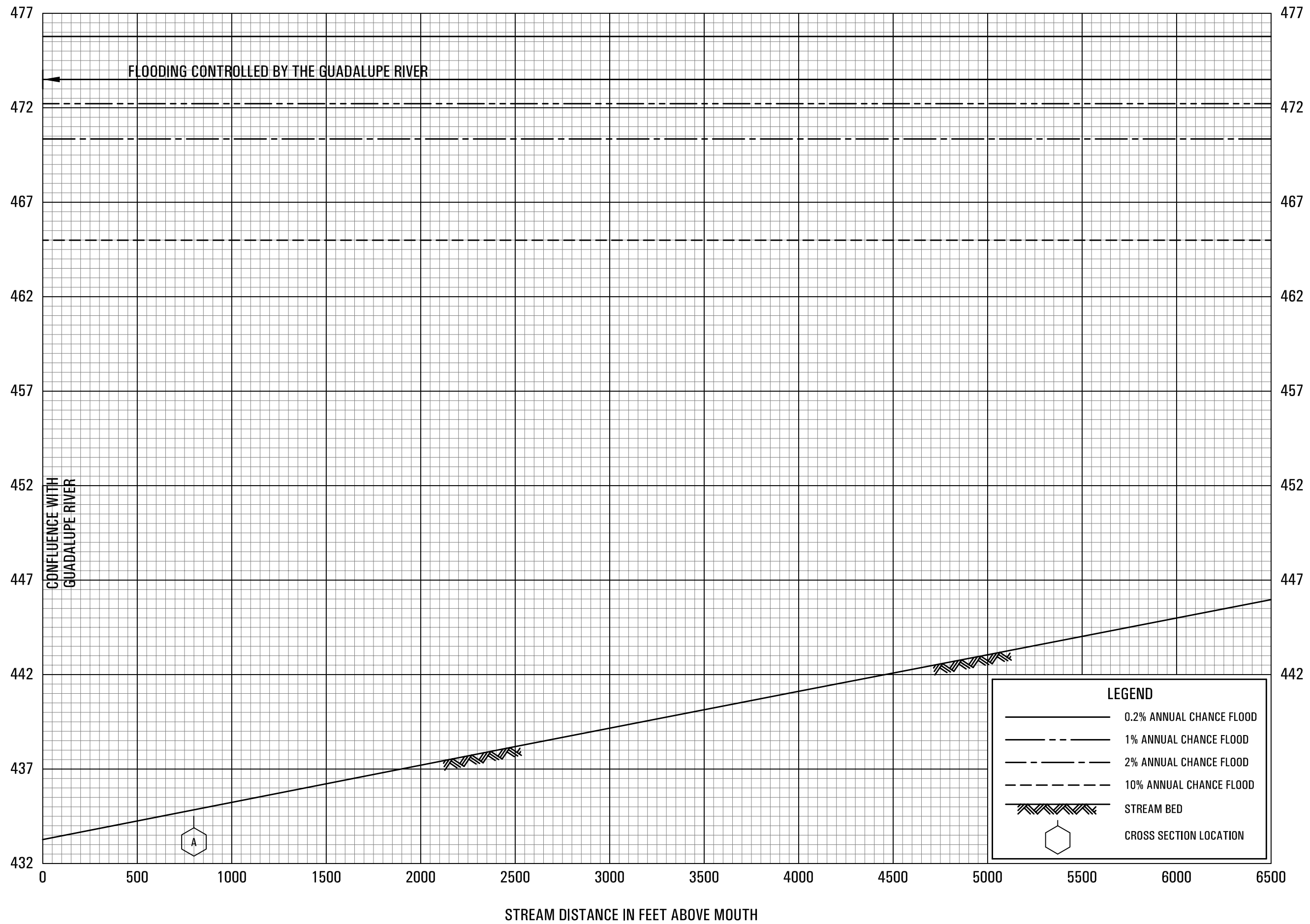
COTTONWOOD CREEK NORTH

FEDERAL EMERGENCY MANAGEMENT AGENCY

GUADALUPE COUNTY, TX

AND INCORPORATED AREAS

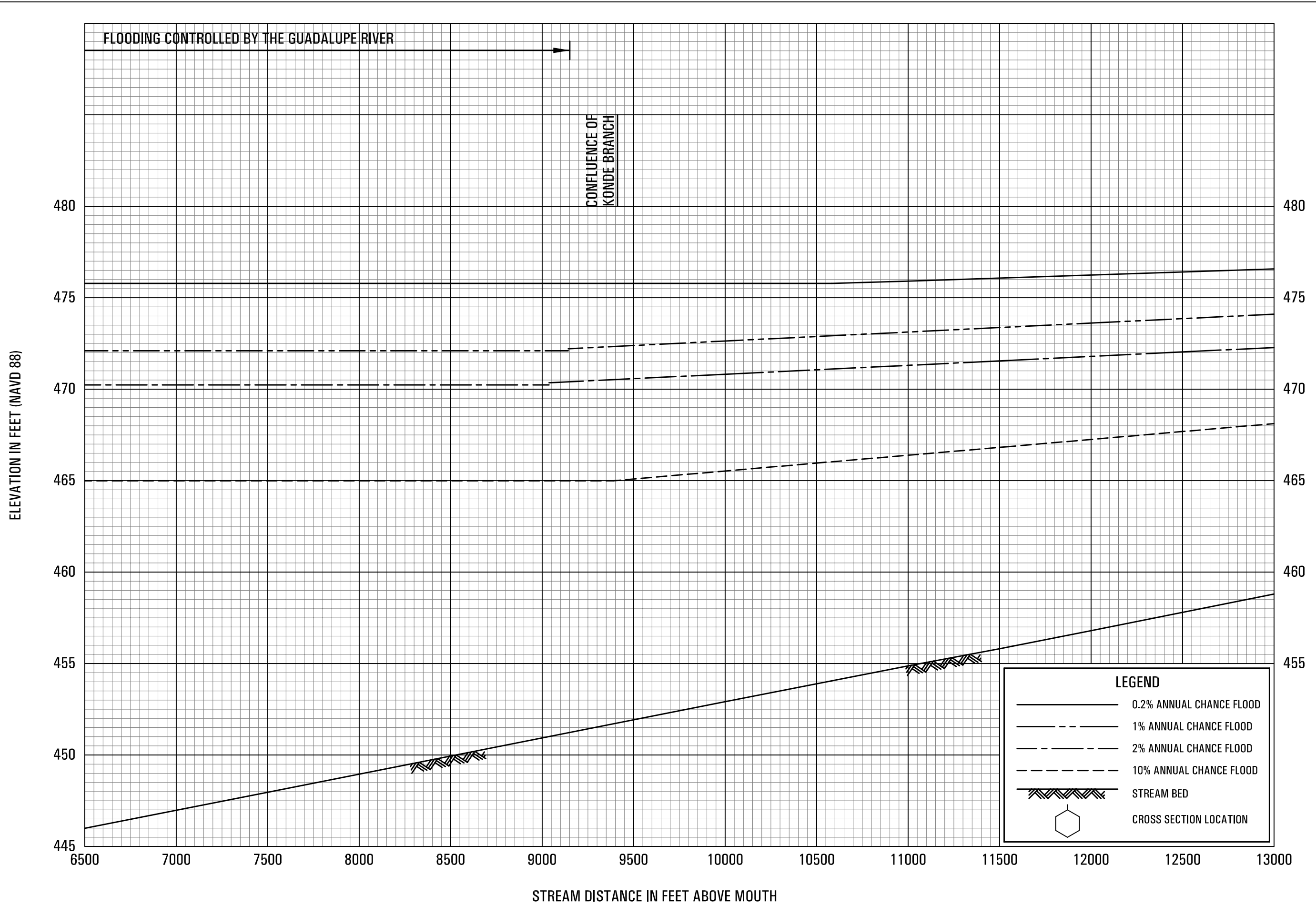
ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

COTTONWOOD CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

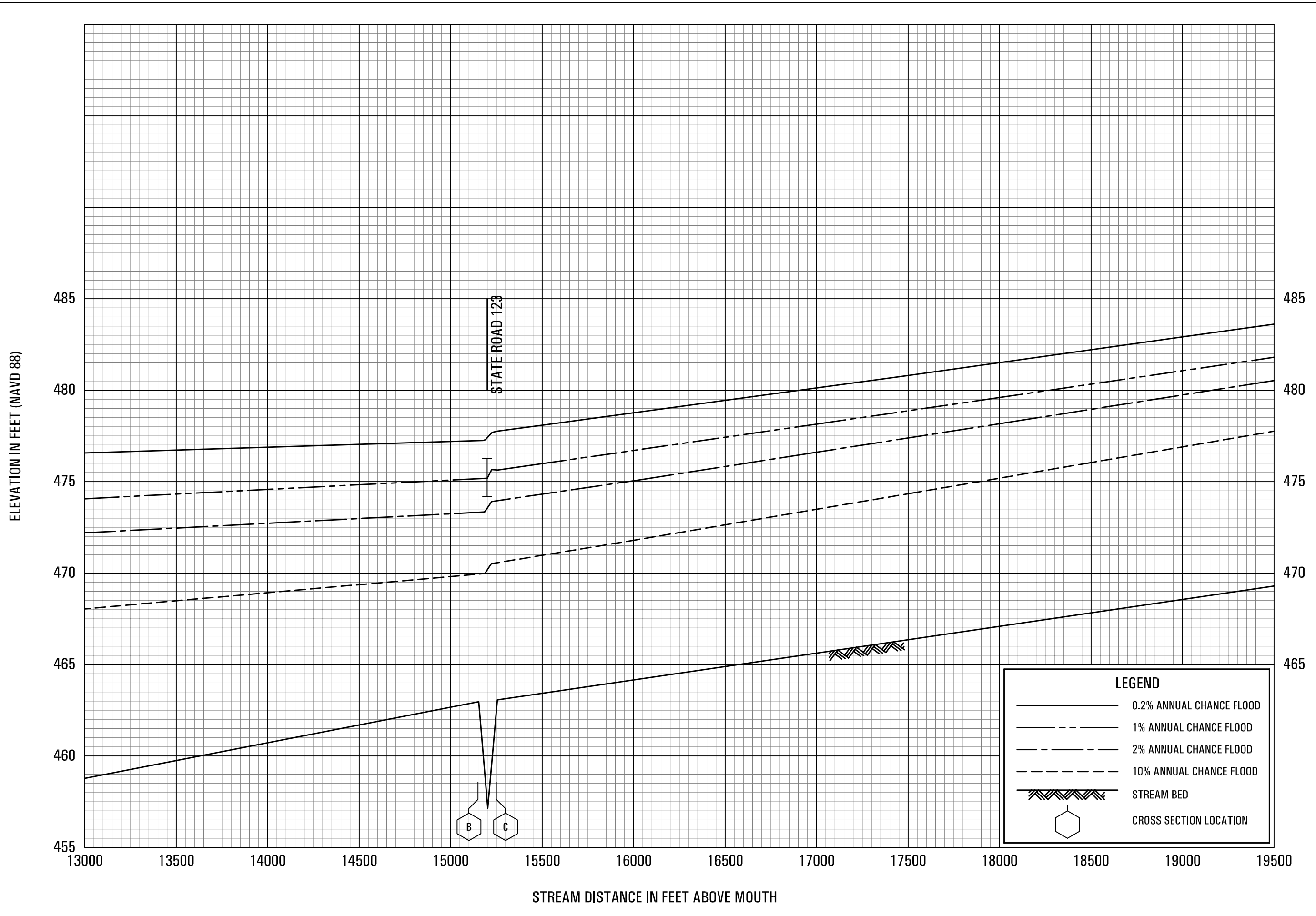


FLOOD PROFILES

COTTONWOOD CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY

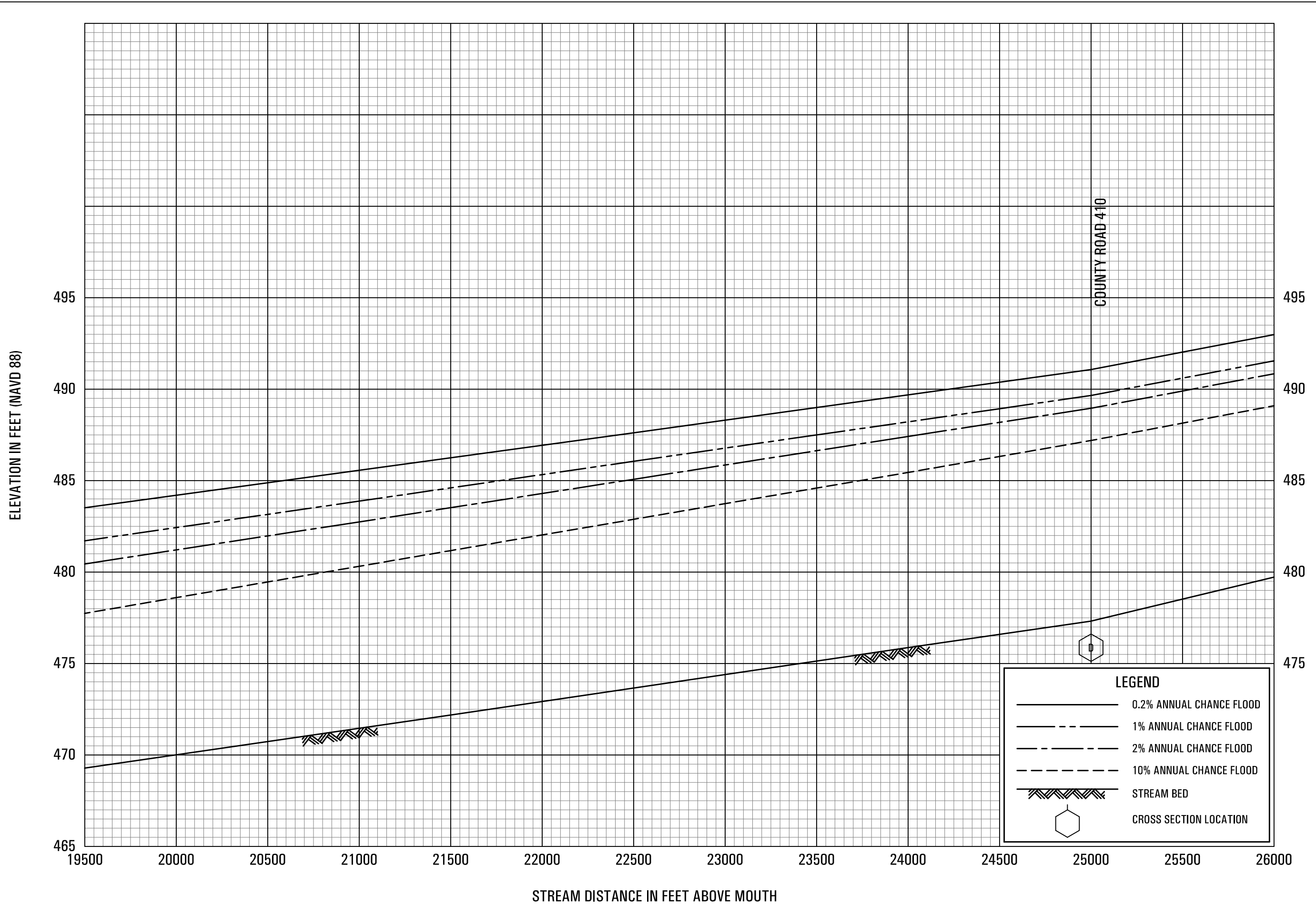
**GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**



FLOOD PROFILES

COTTONWOOD CREEK SOUTH

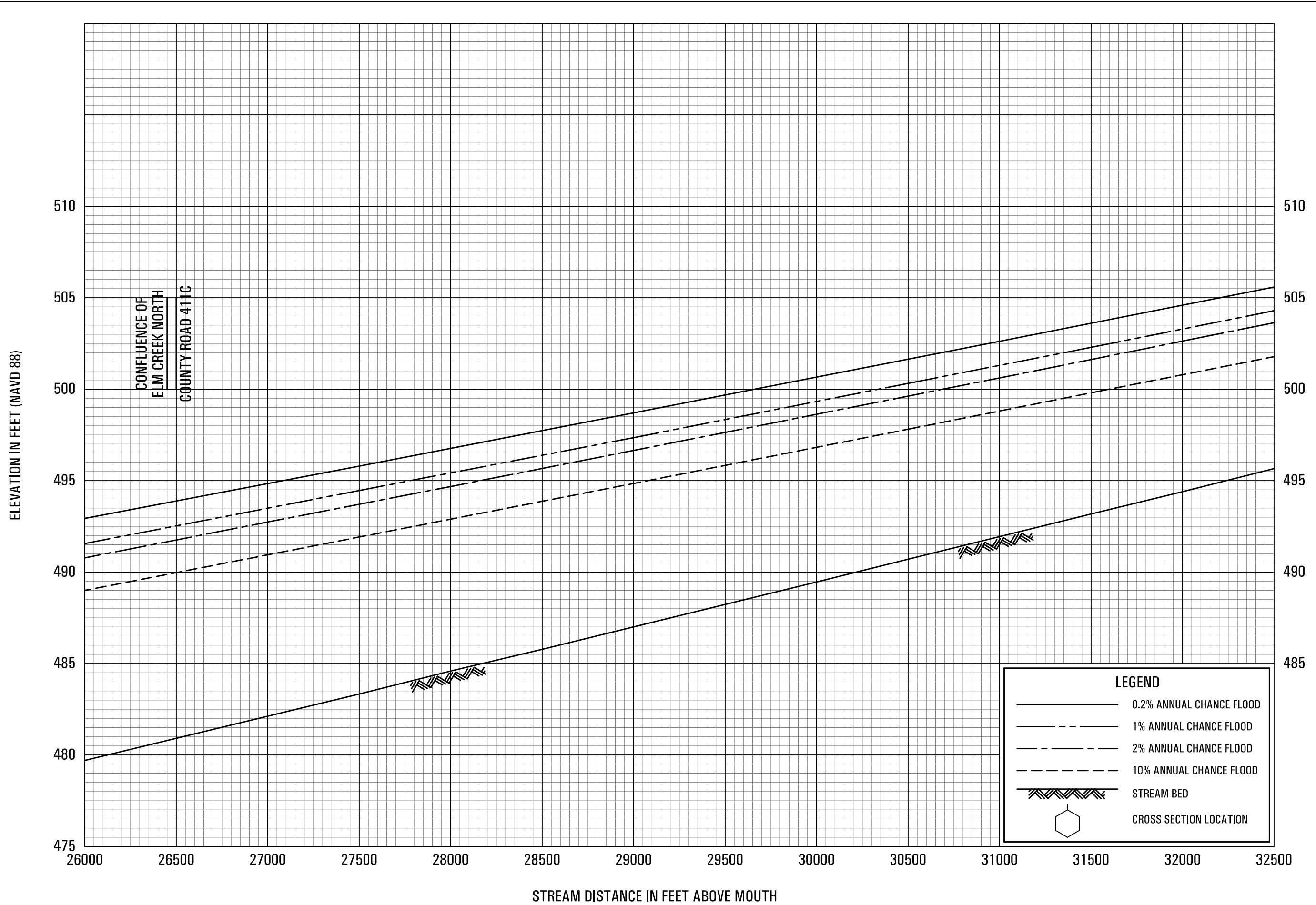
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES

COTTONWOOD CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

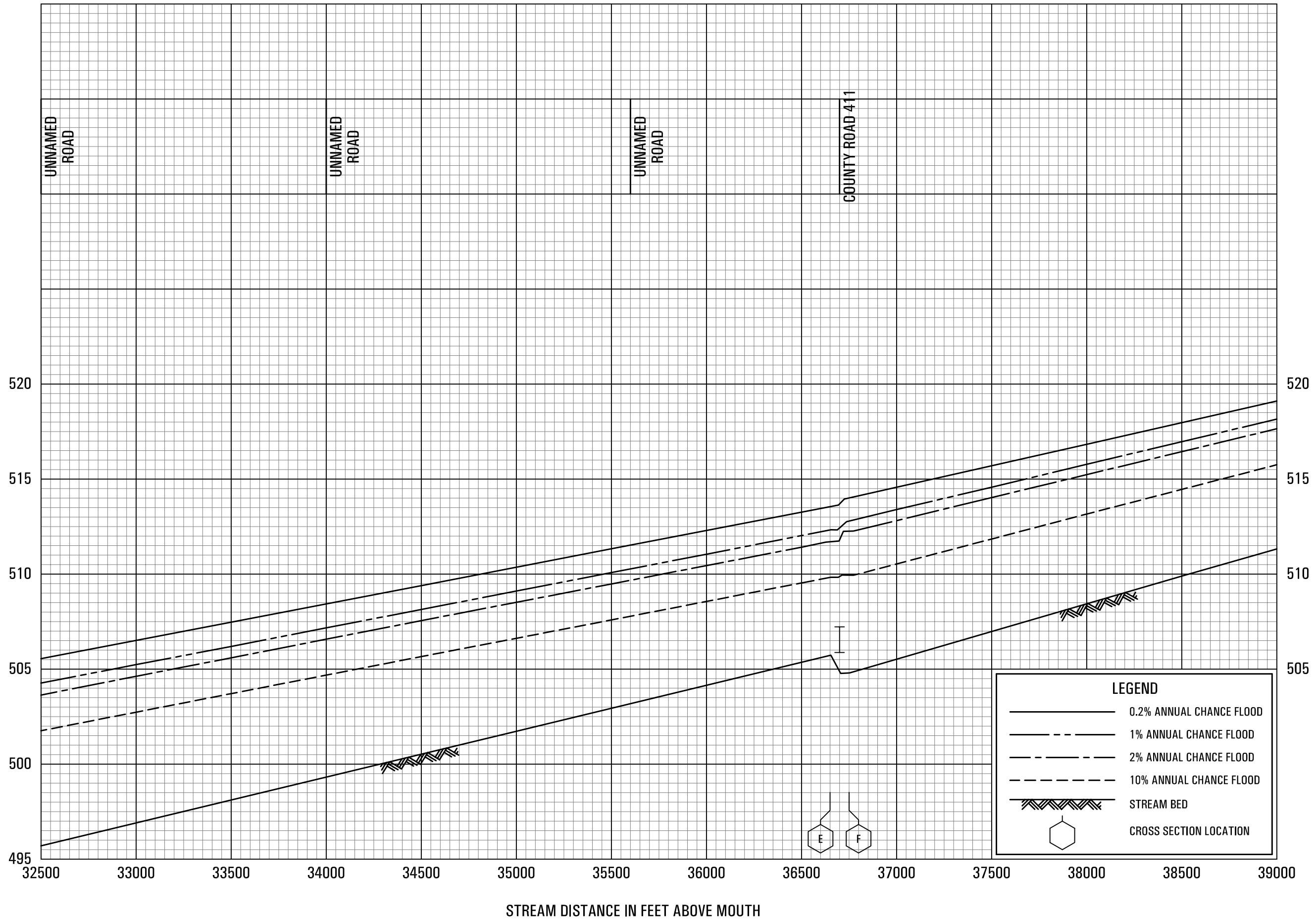


FLOOD PROFILES

COTTONWOOD CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

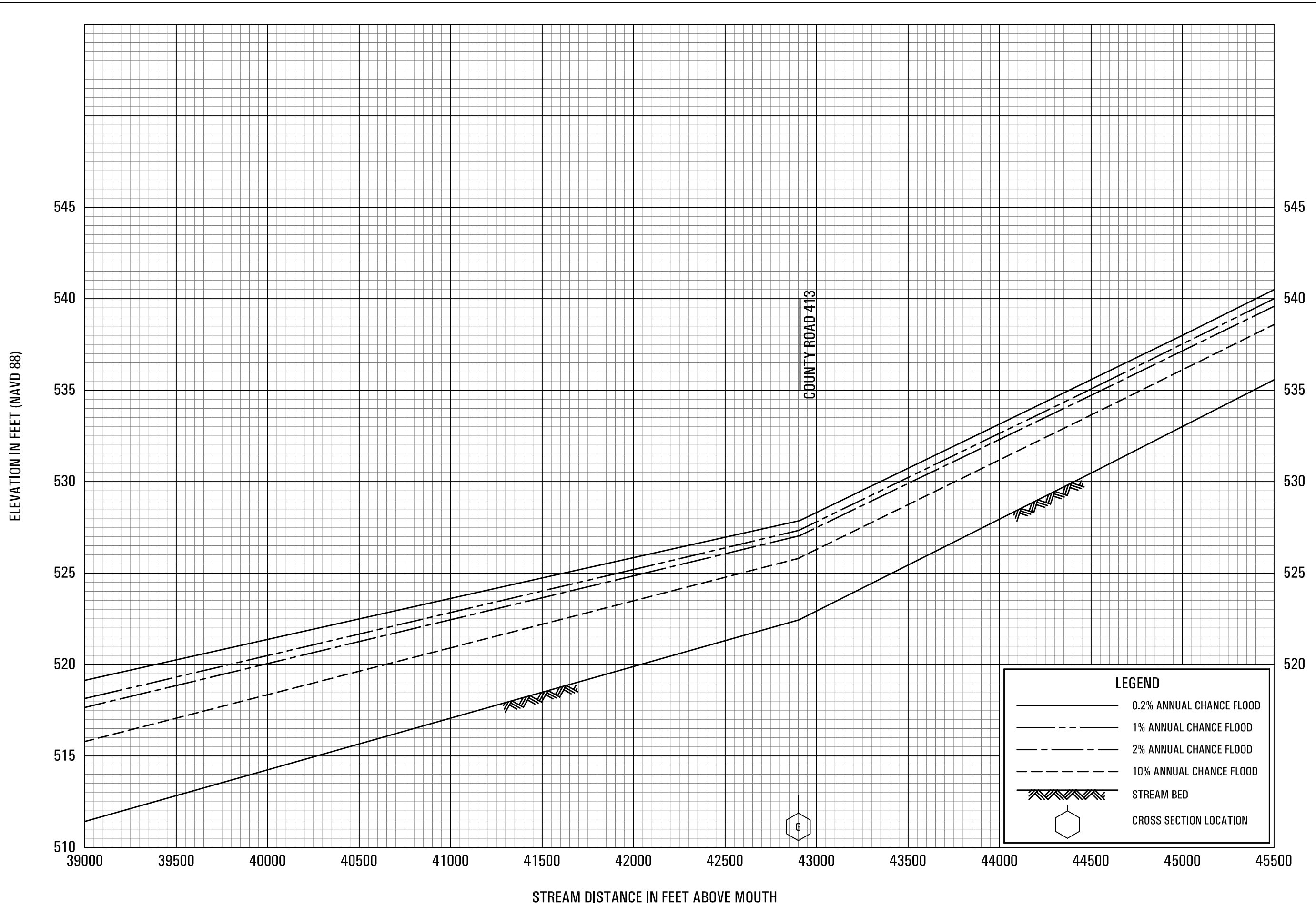
ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

COTTONWOOD CREEK SOUTH

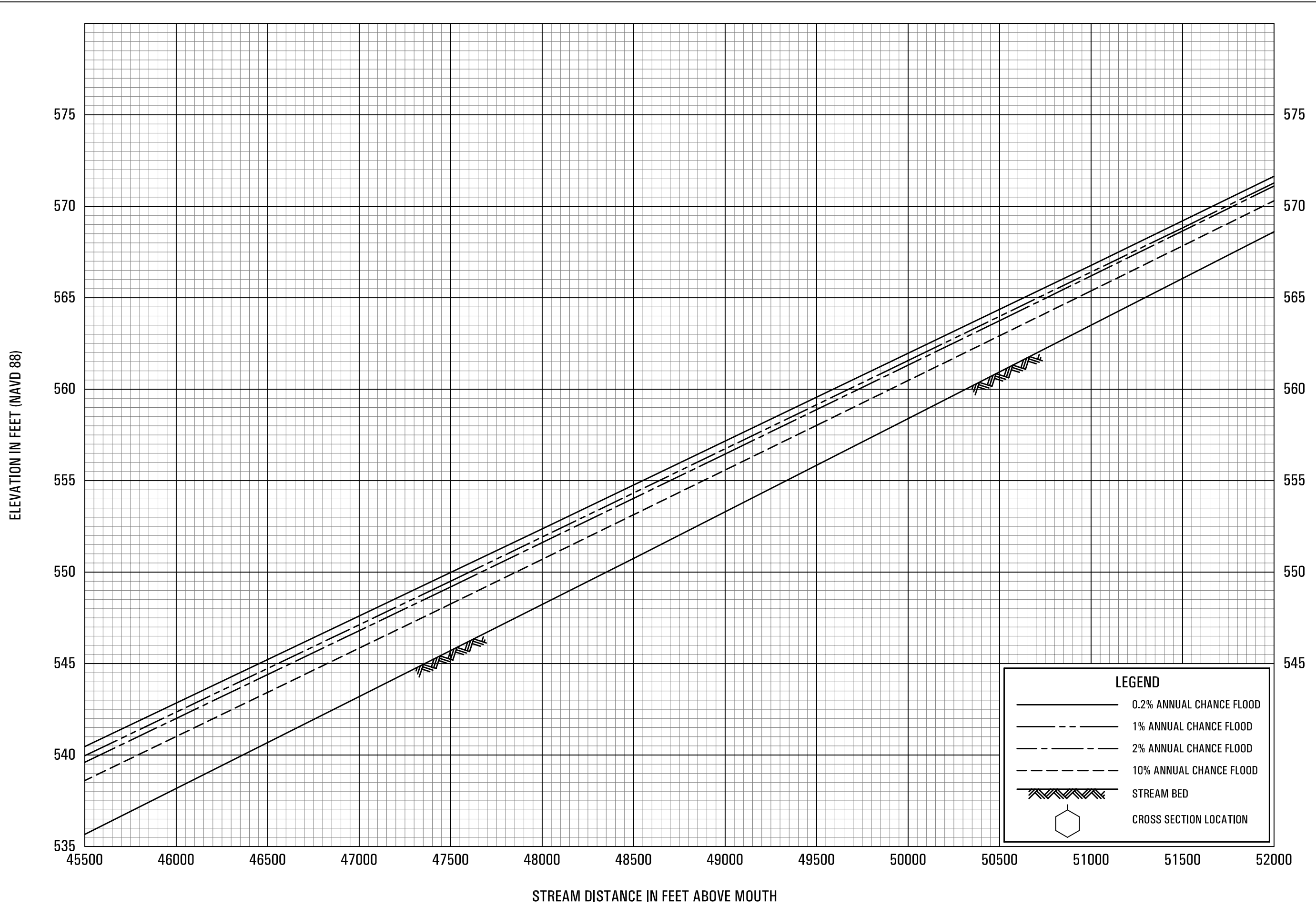
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES
COTTONWOOD CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

37P



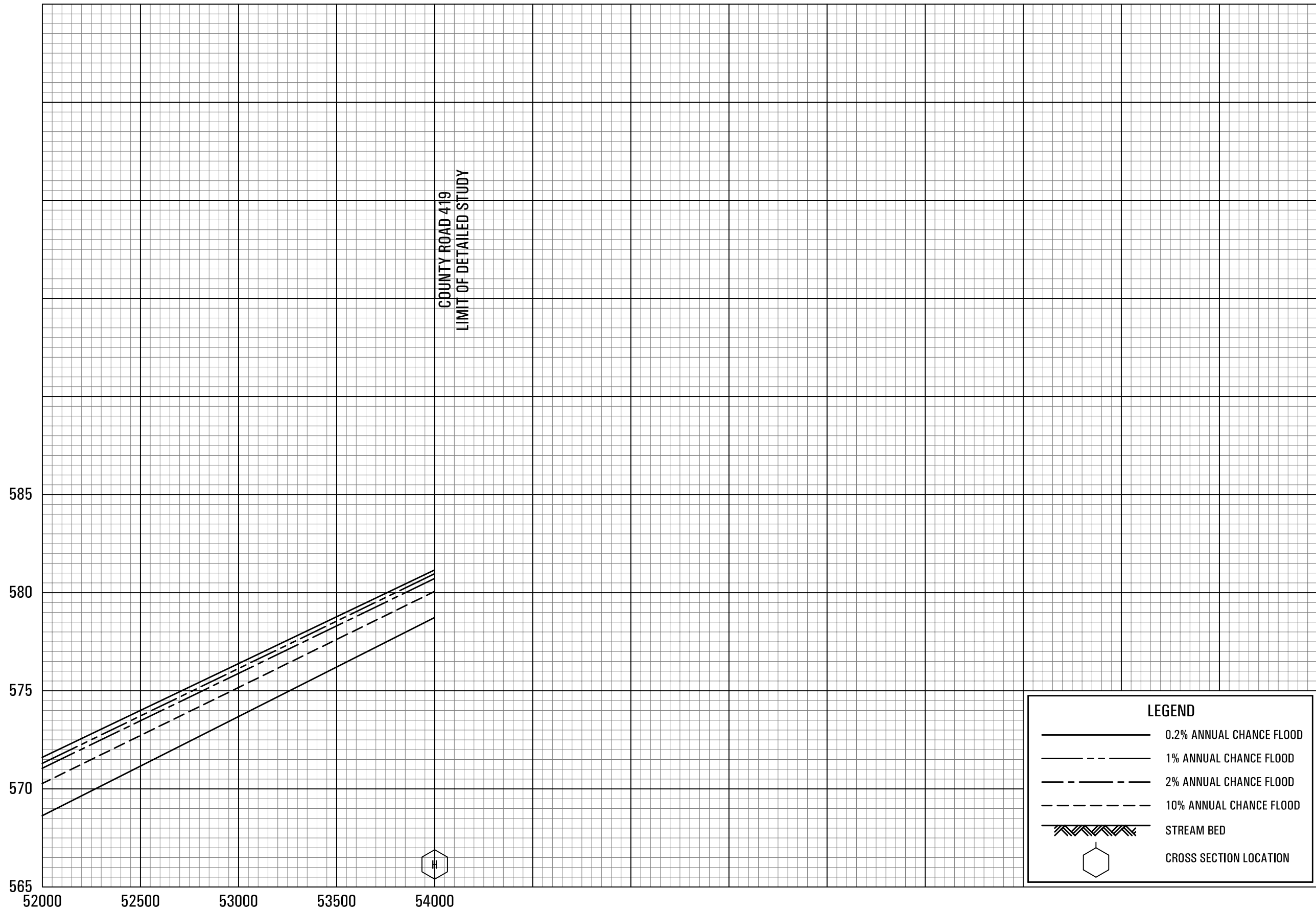
FLOOD PROFILES

COTTONWOOD CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY

**GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE MOUTH

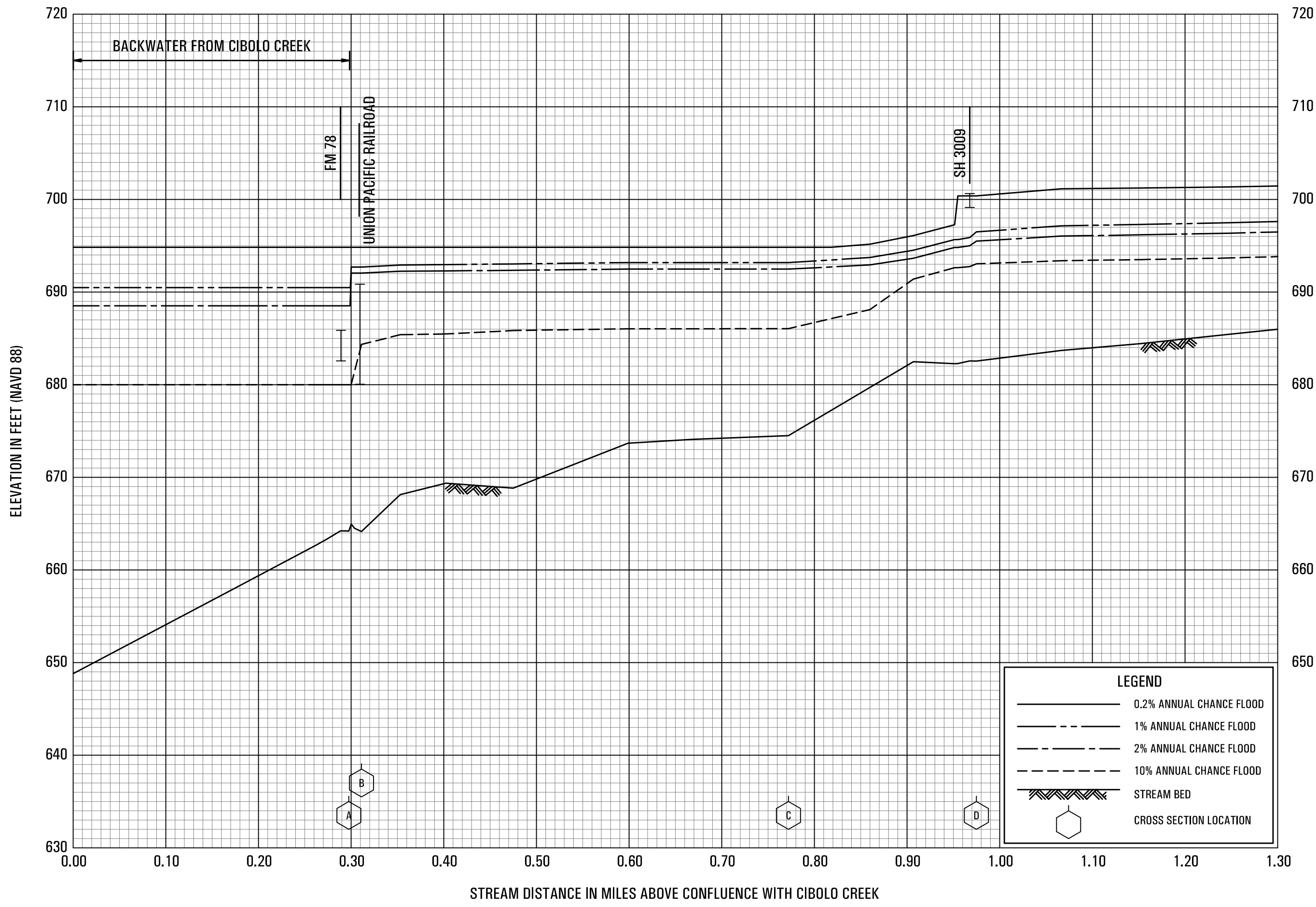
LEGEND

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

FLOOD PROFILES

COTTONWOOD CREEK SOUTH

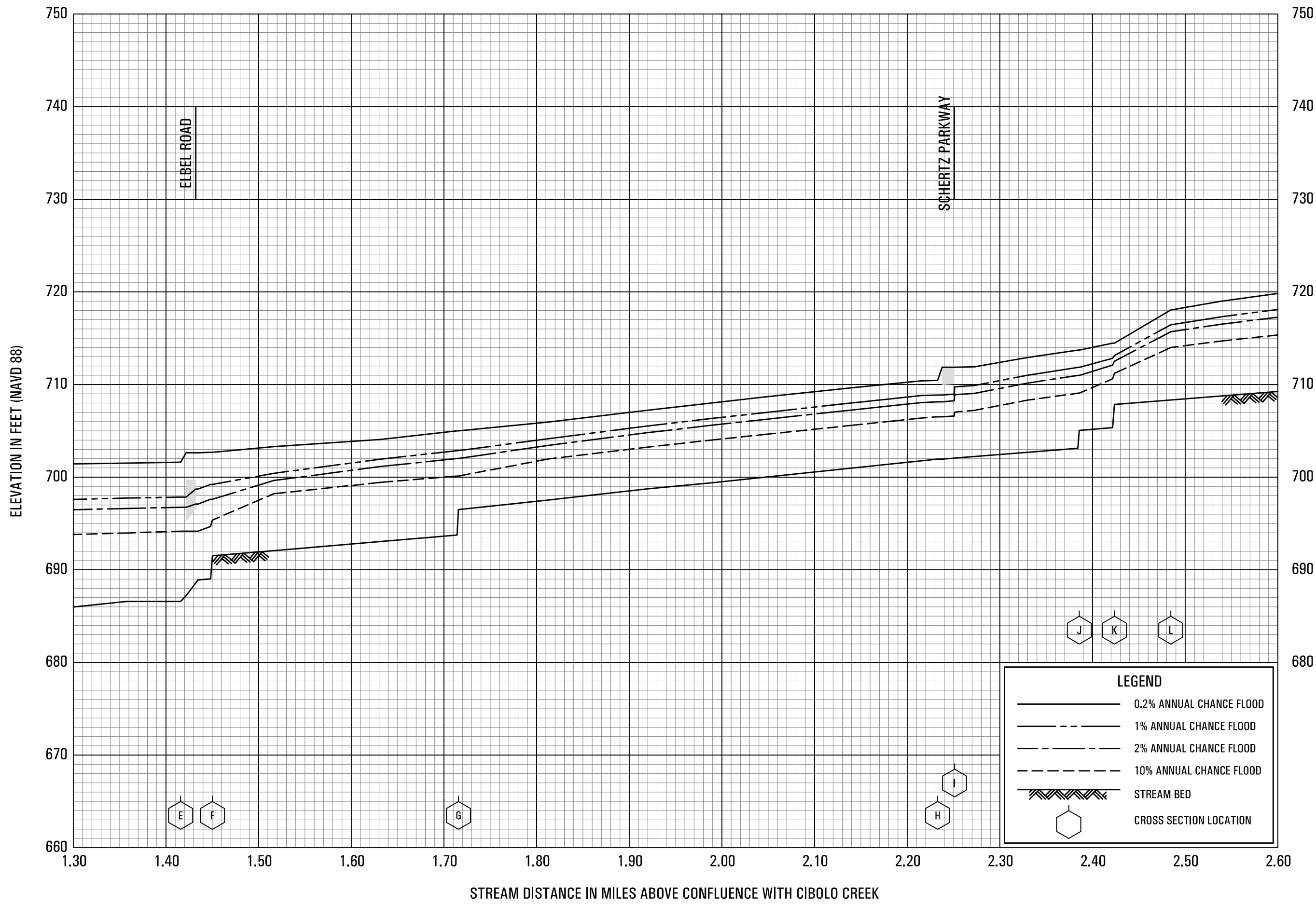
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

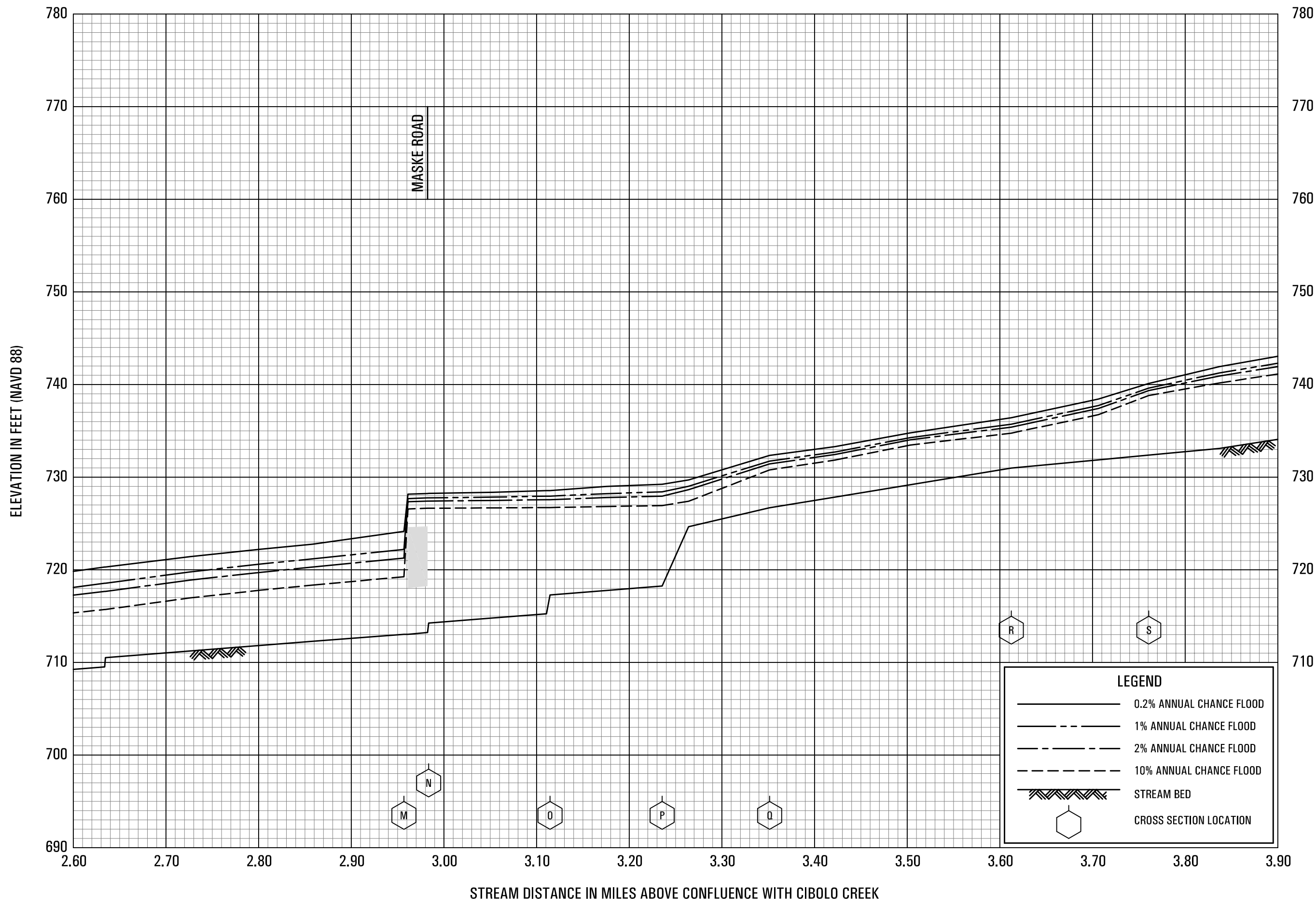
DIETZ CREEK

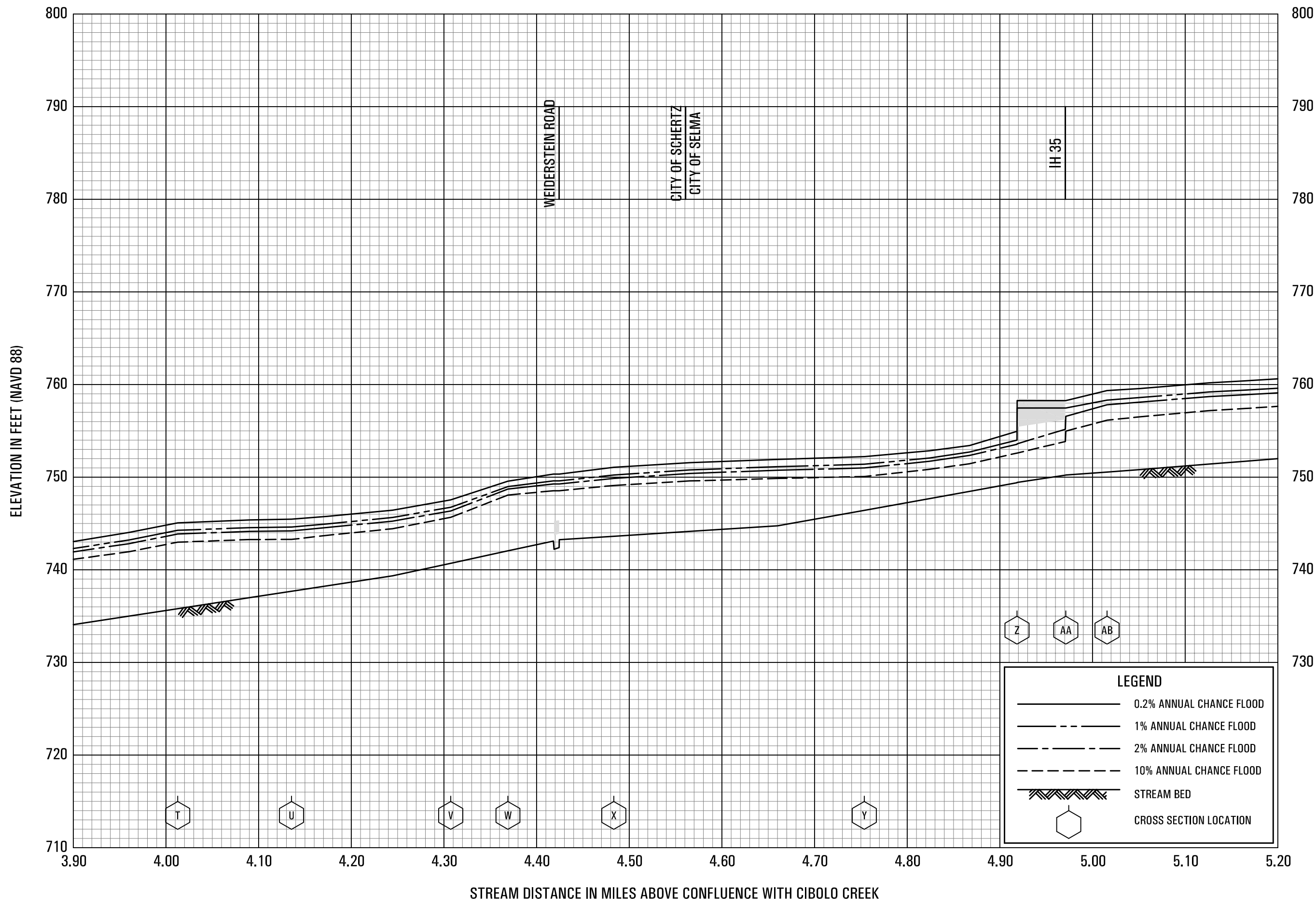
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES
DIETZ CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

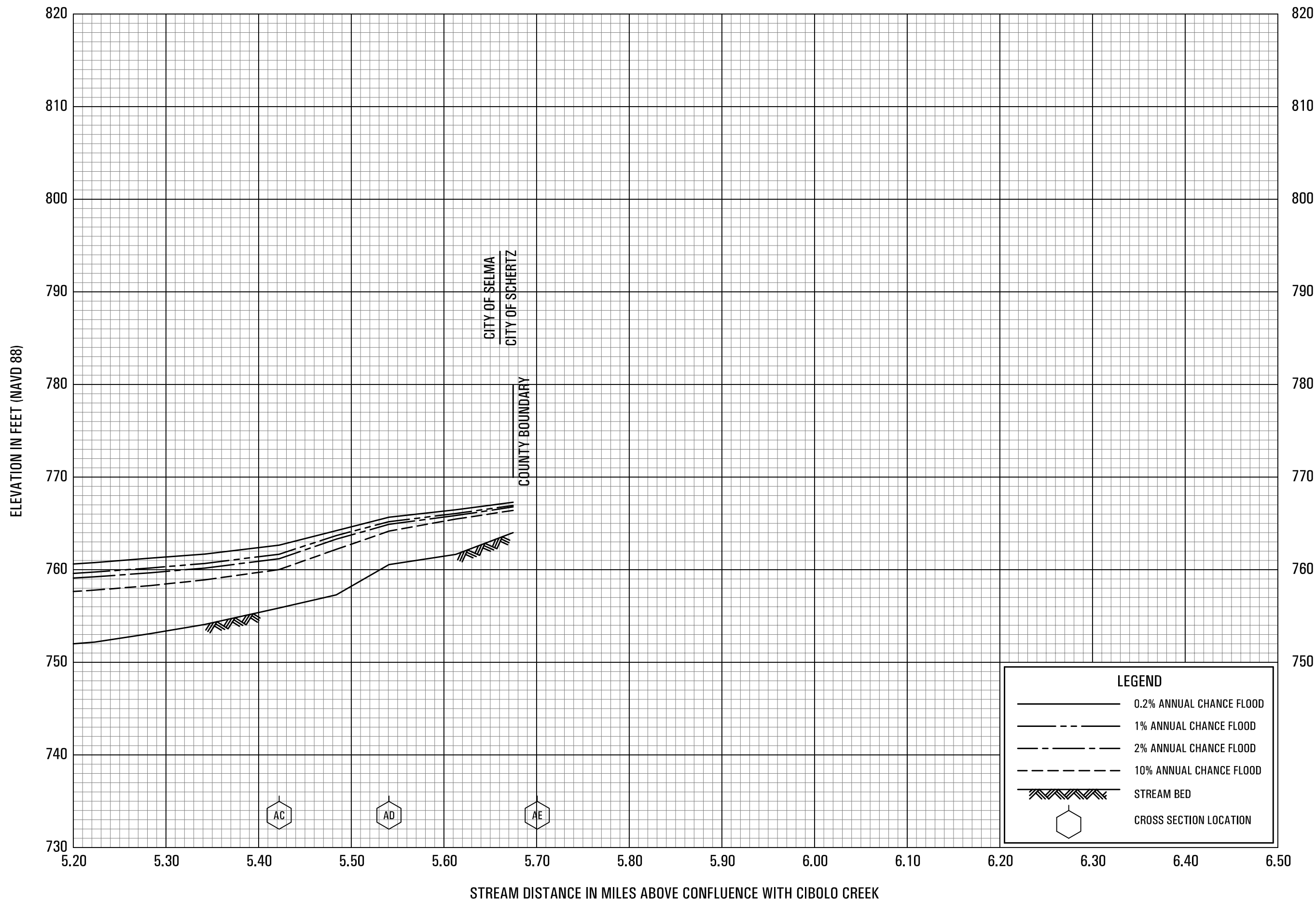




FLOOD PROFILES
DIETZ CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

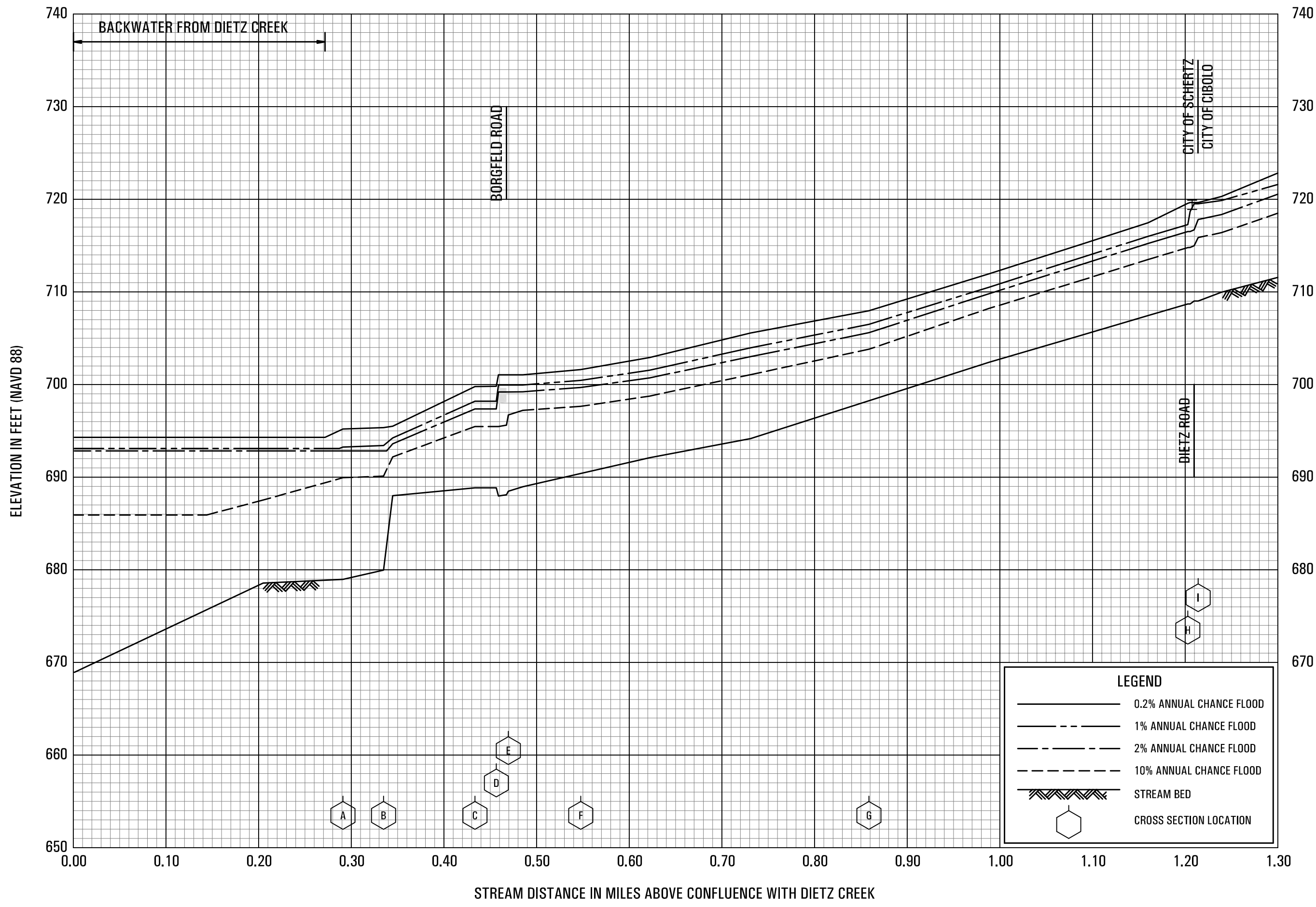
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FLOOD PROFILES

DIETZ CREEK

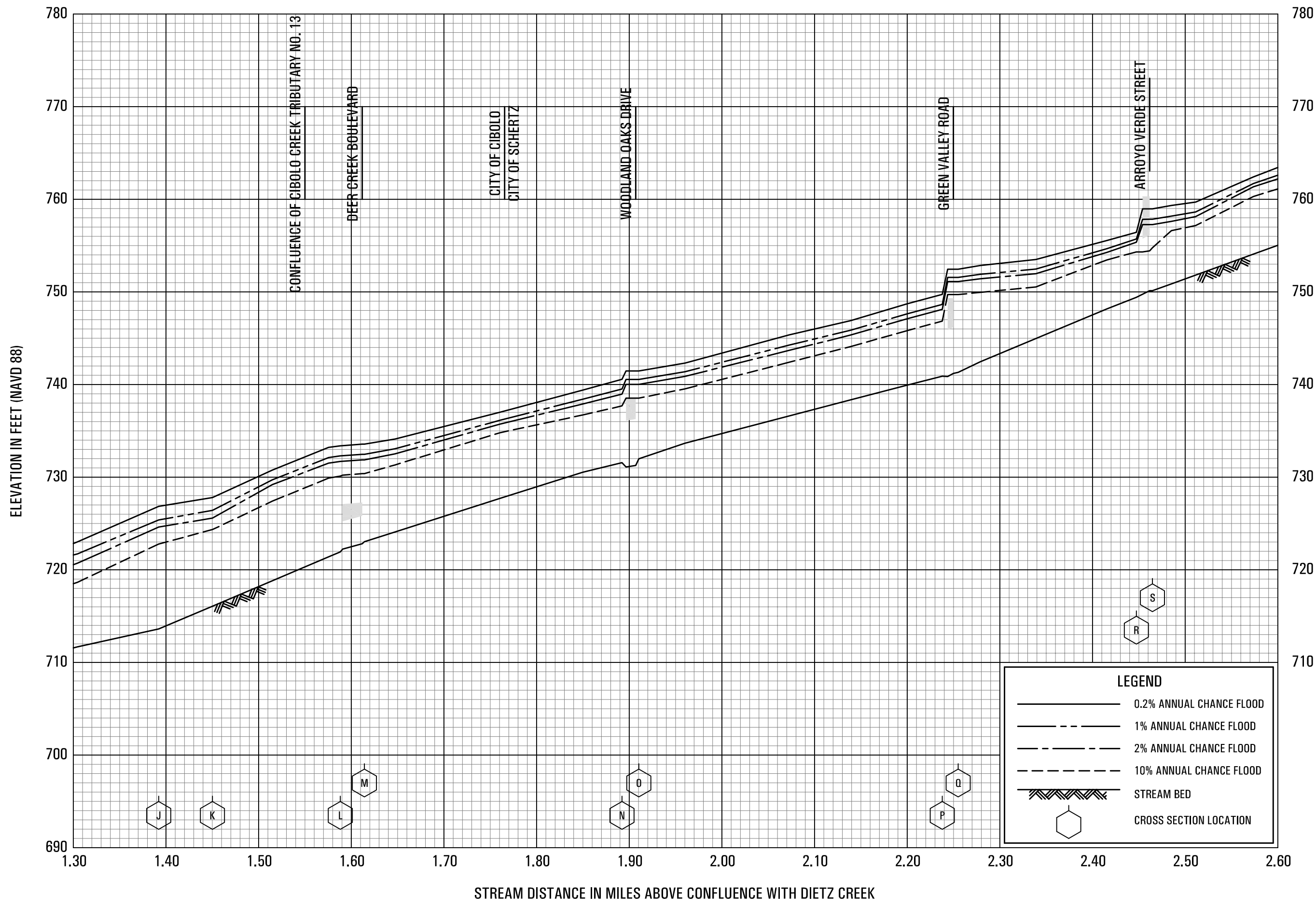
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

EAST BRANCH DIETZ CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**

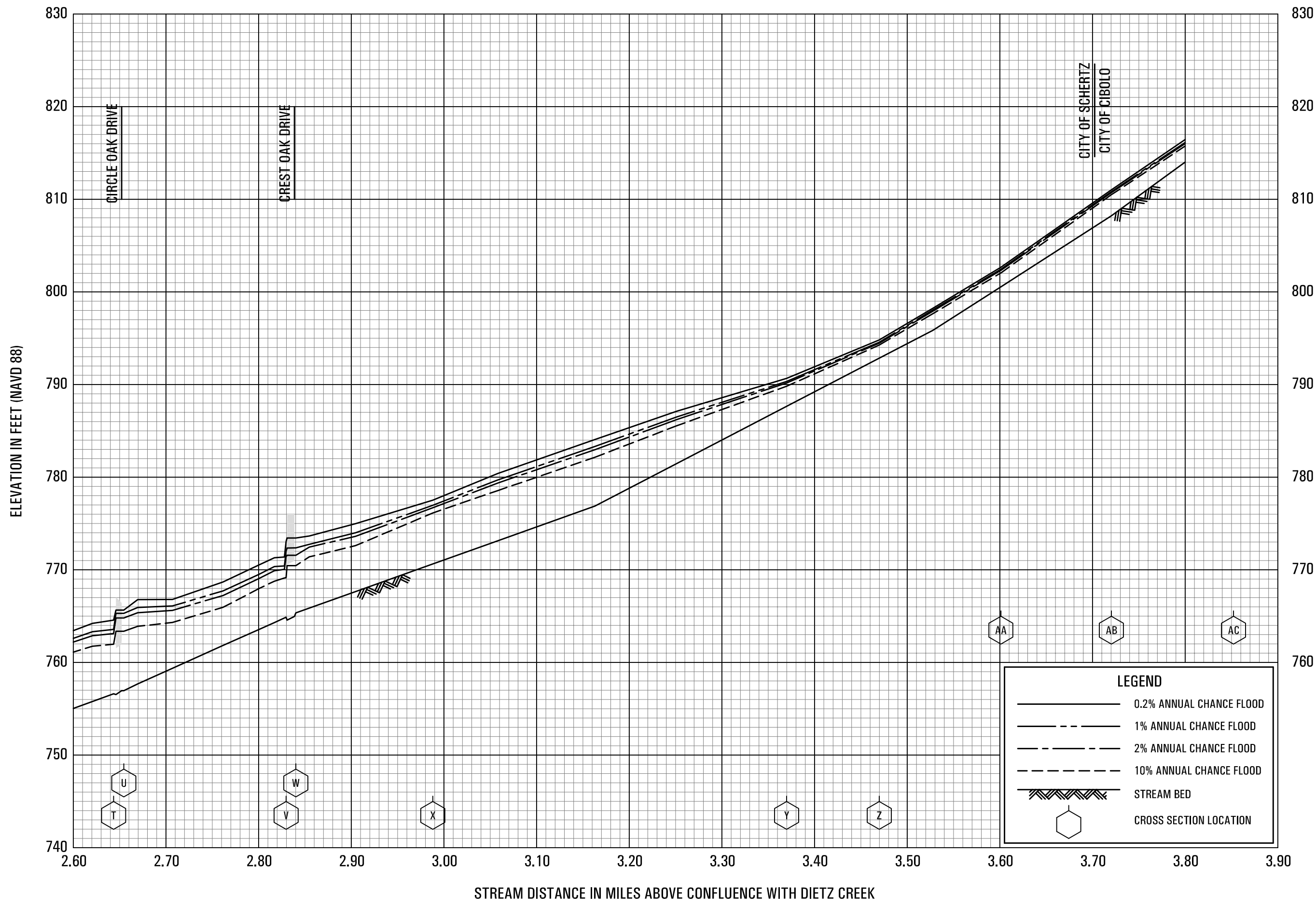


FLOOD PROFILES

EAST BRANCH DIETZ CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

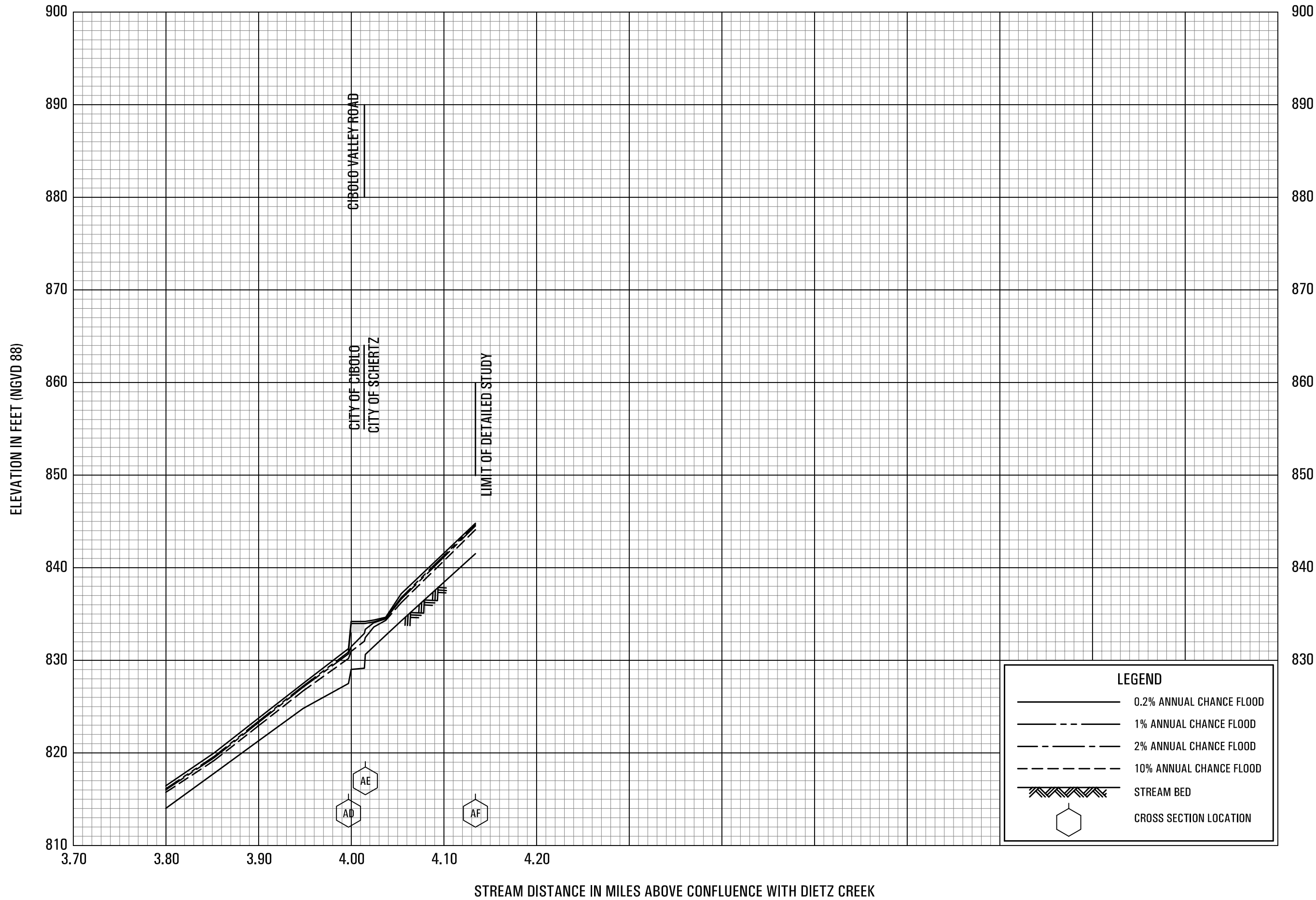
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES
EAST BRANCH DIETZ CREEK

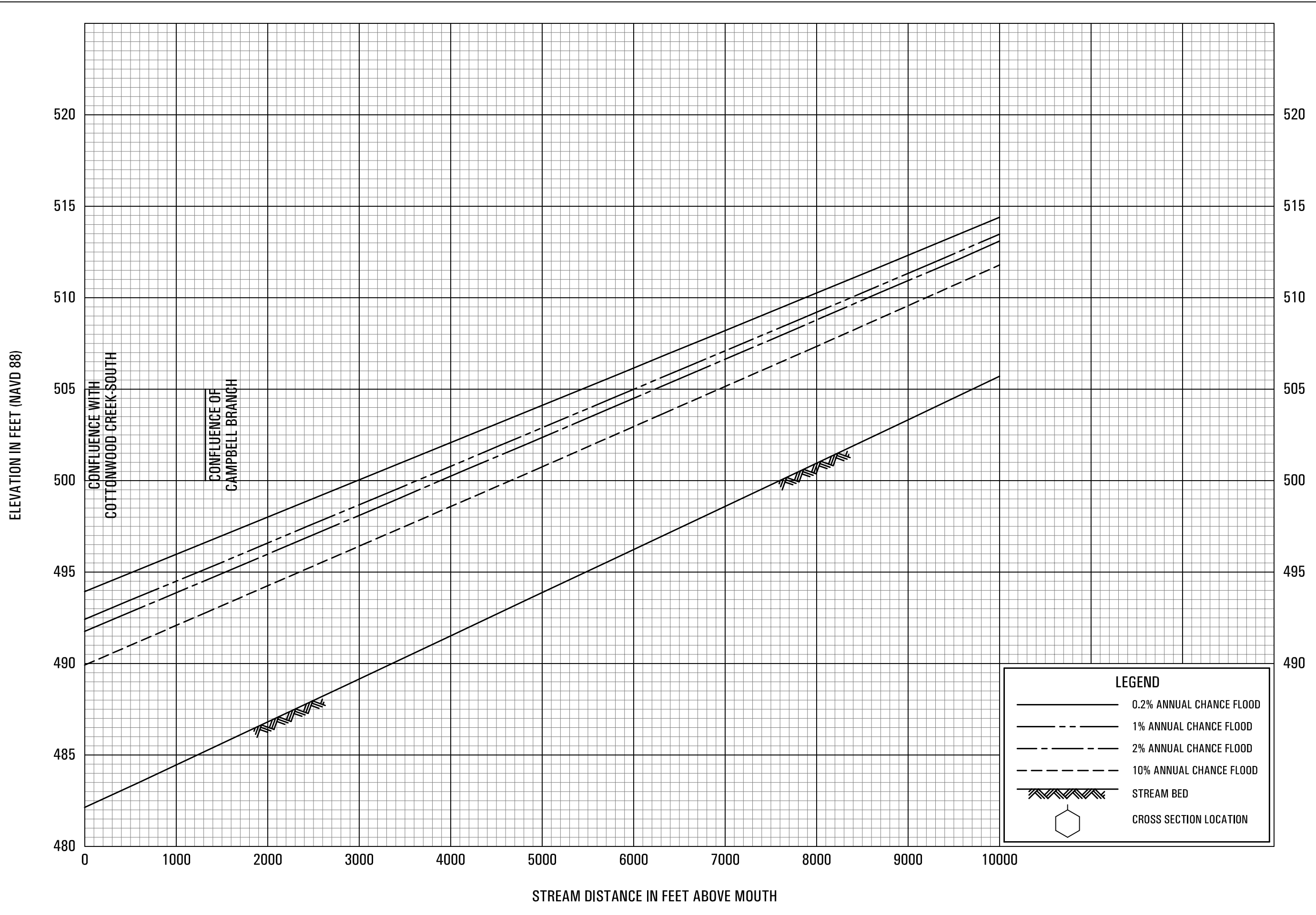
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS

47P



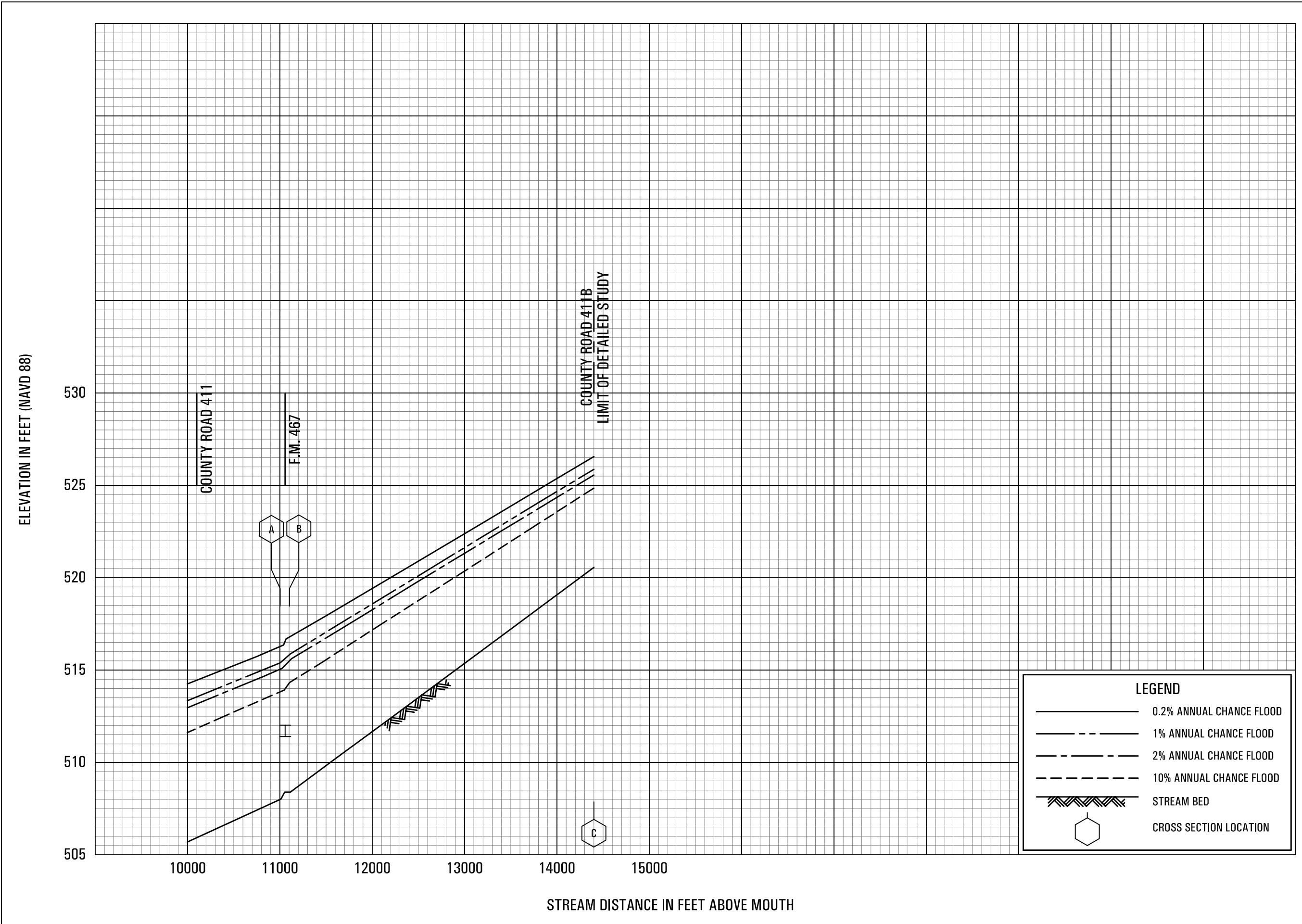
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

FLOOD PROFILES
 EAST BRANCH DIETZ CREEK



FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

FLOOD PROFILES
 ELM CREEK NORTH

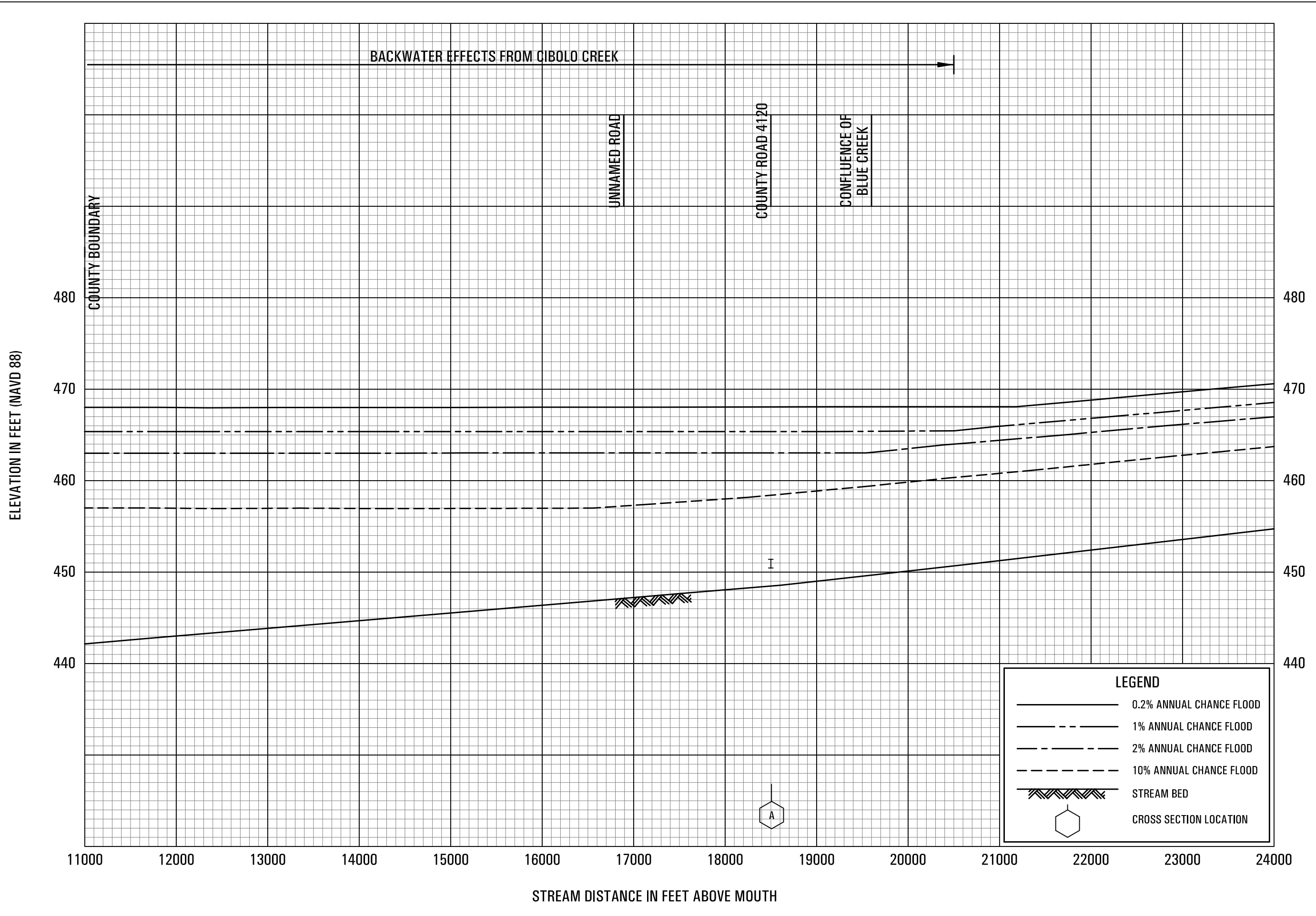


FLOOD PROFILES

ELM CREEK NORTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

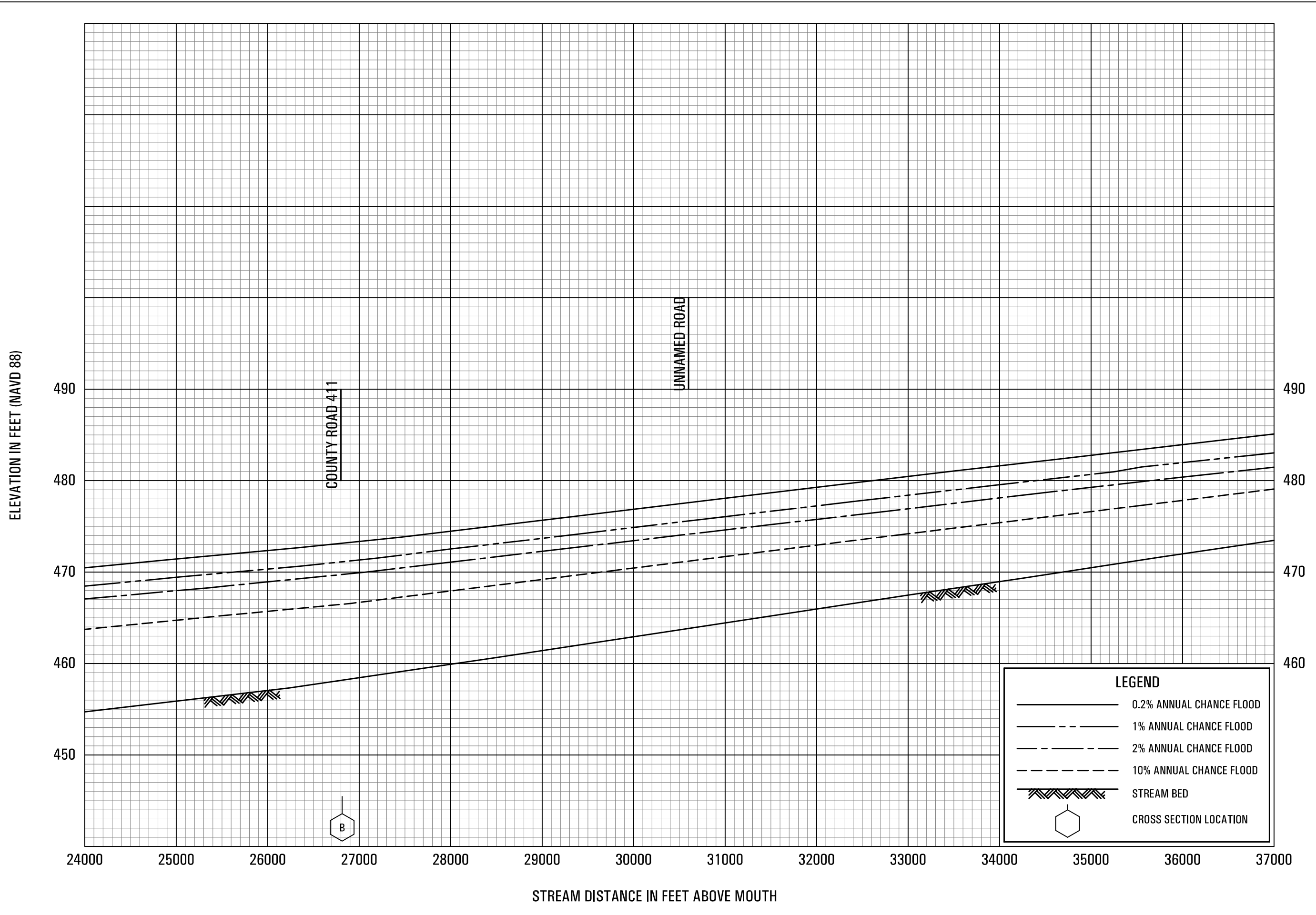
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FLOOD PROFILES

ELM CREEK SOUTH

**FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**

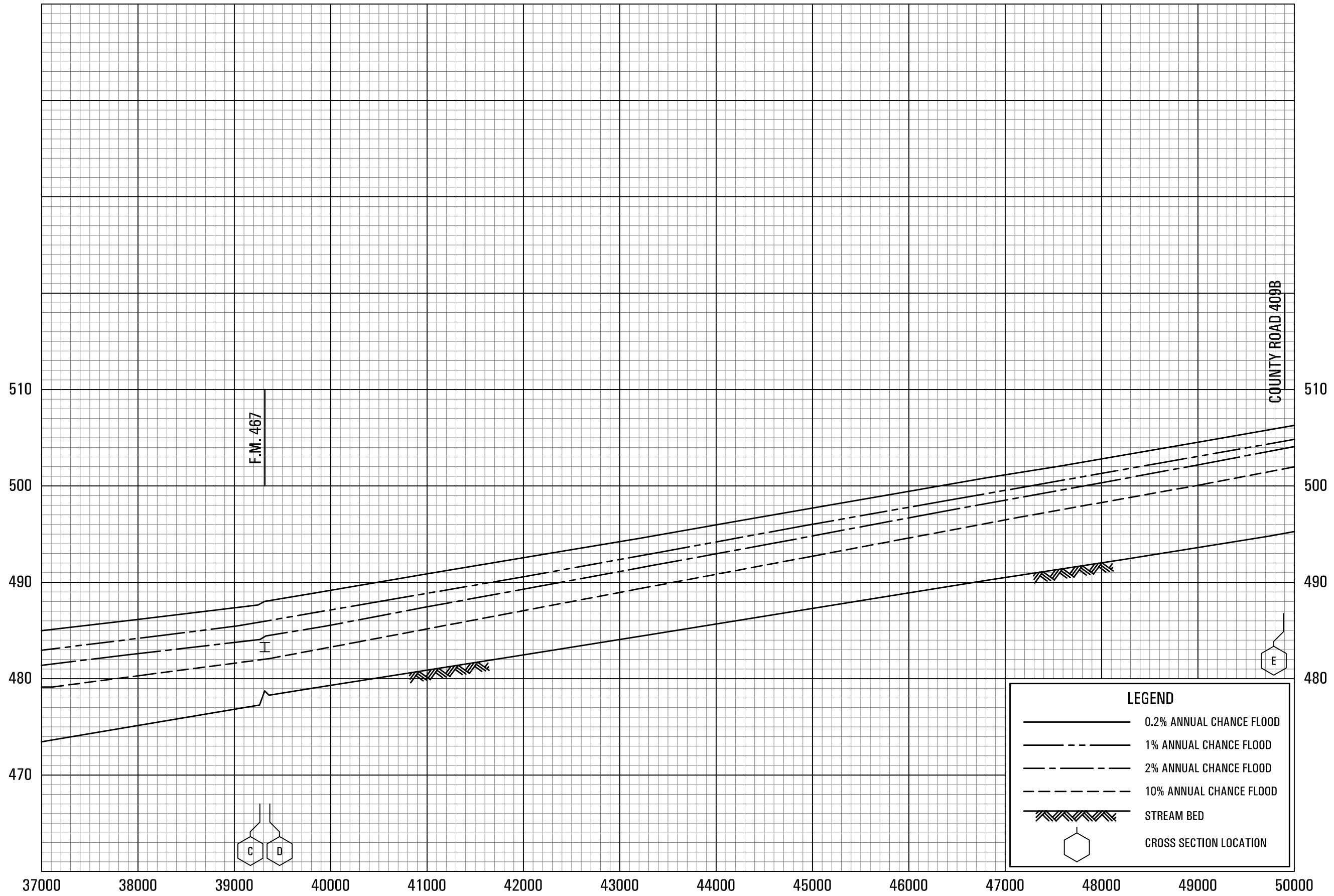


FLOOD PROFILES

ELM CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

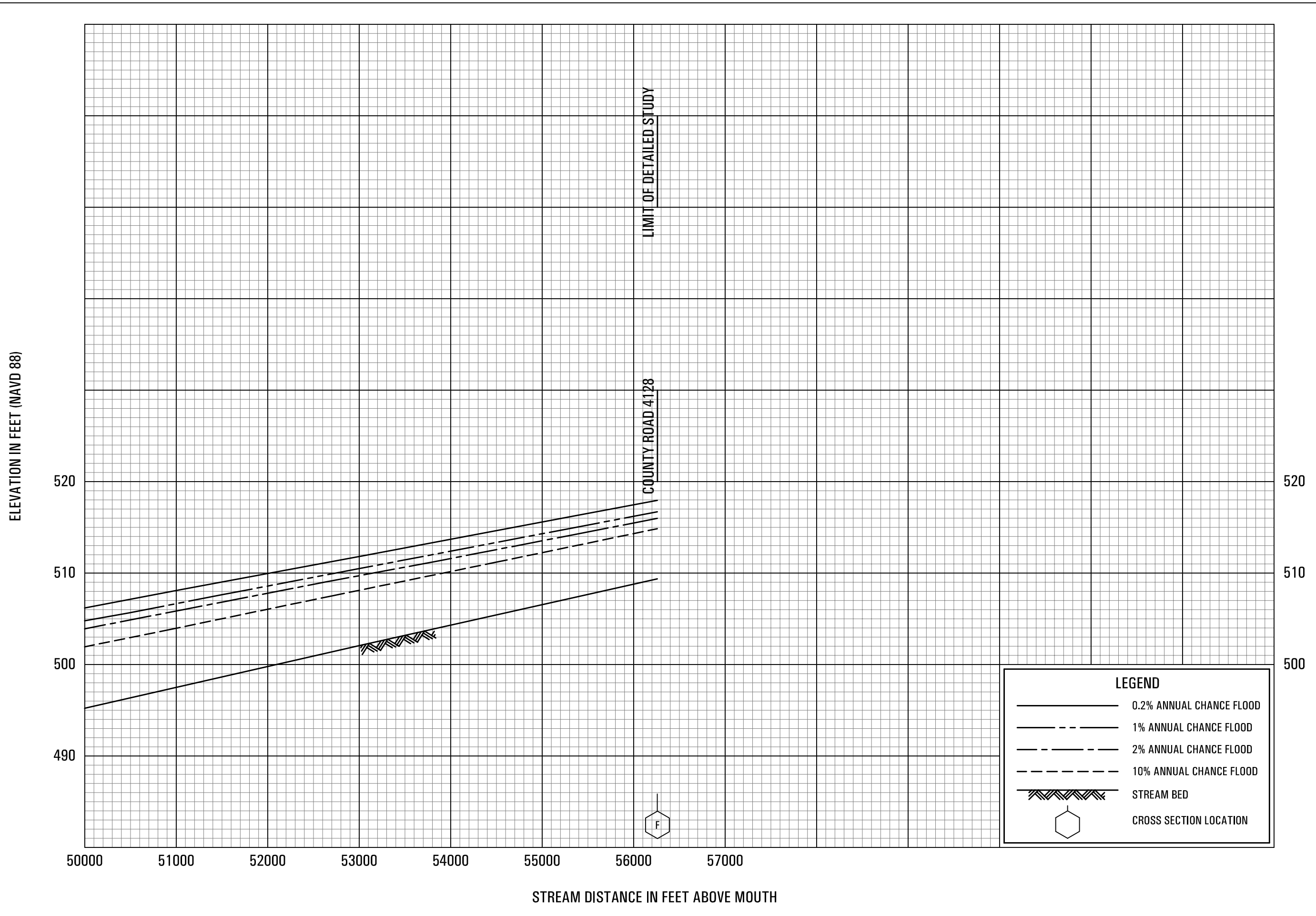
ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE MOUTH

FLOOD PROFILES
ELM CREEK SOUTH

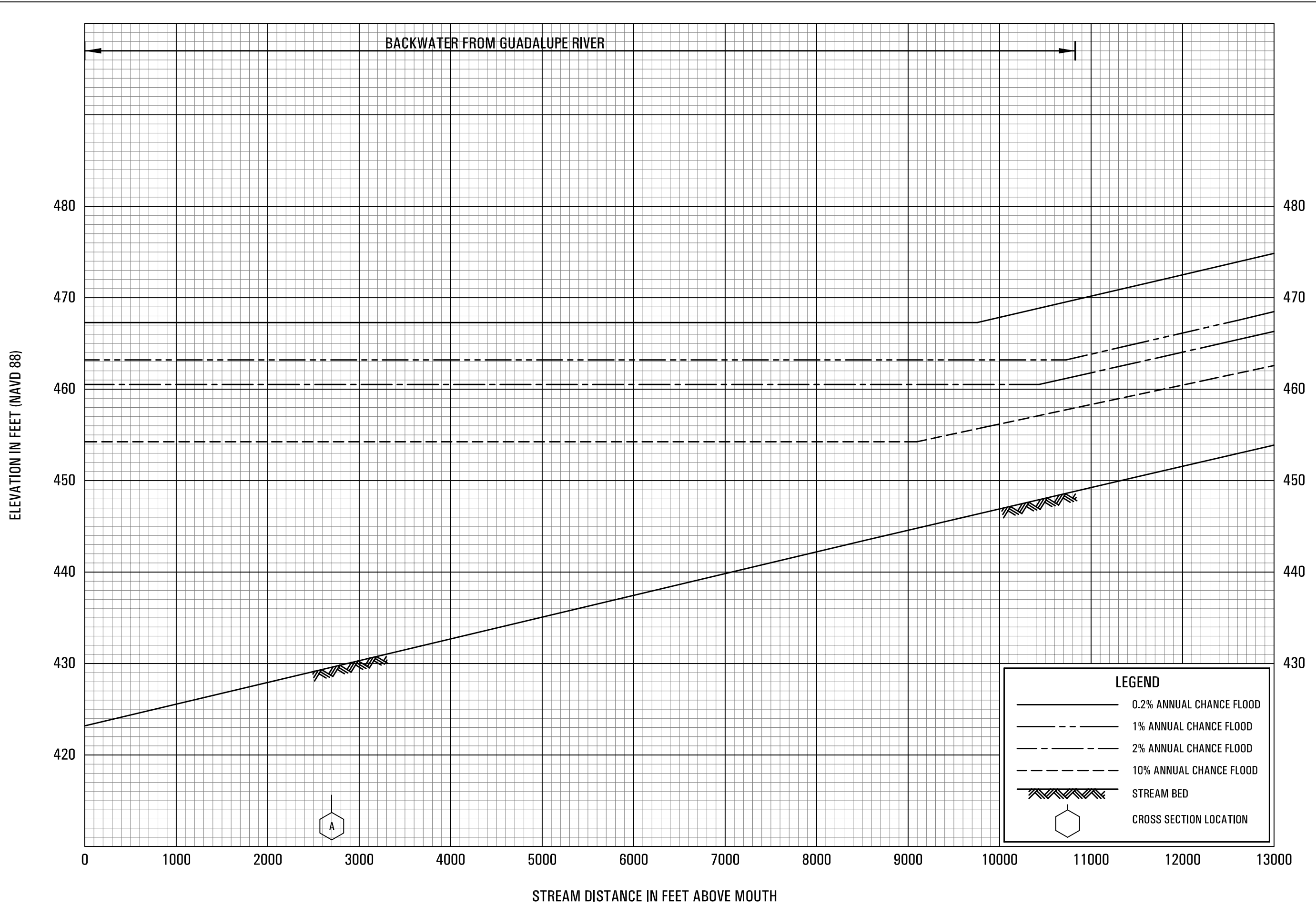
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

ELM CREEK SOUTH

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

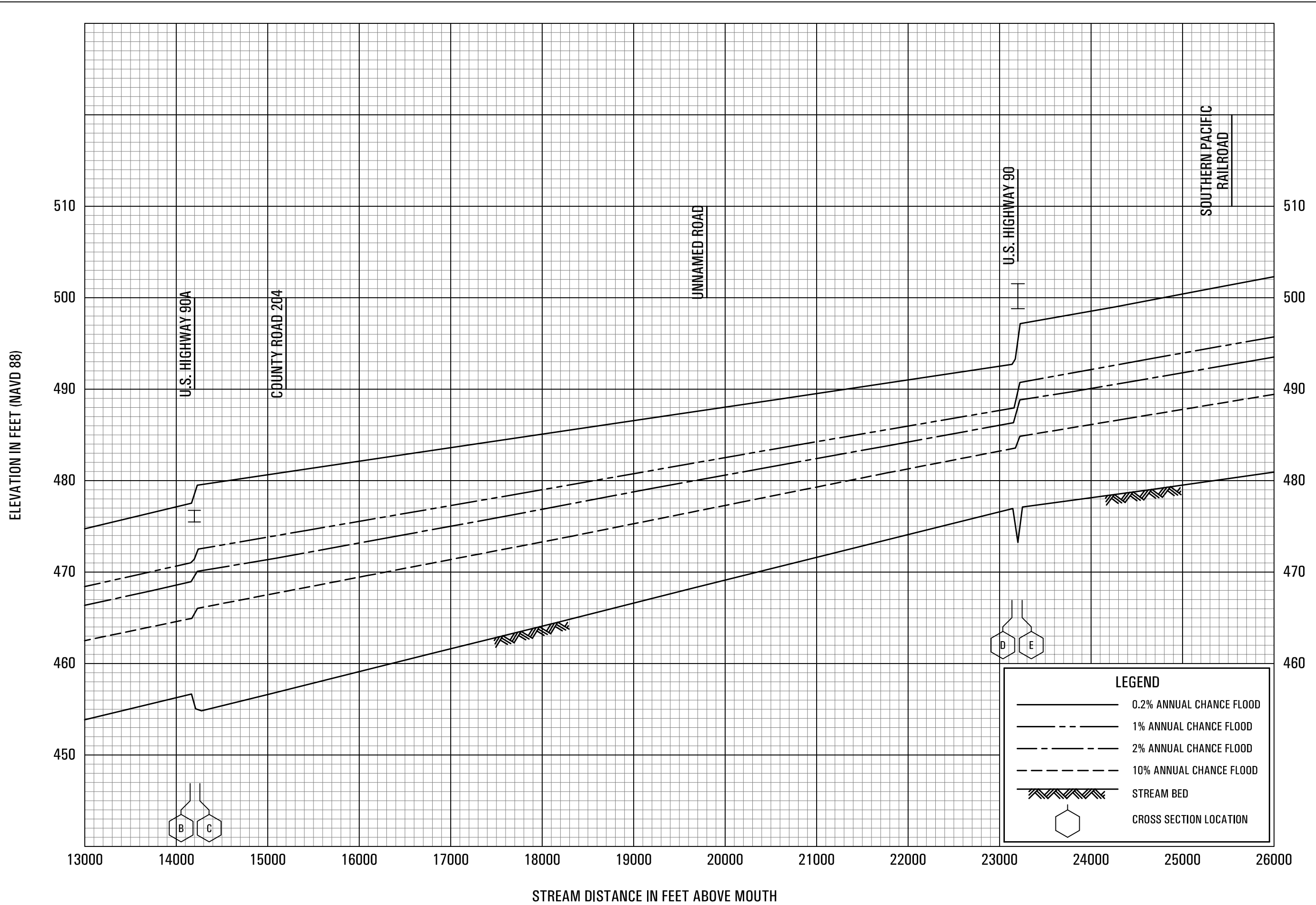


FLOOD PROFILES

GERONIMO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

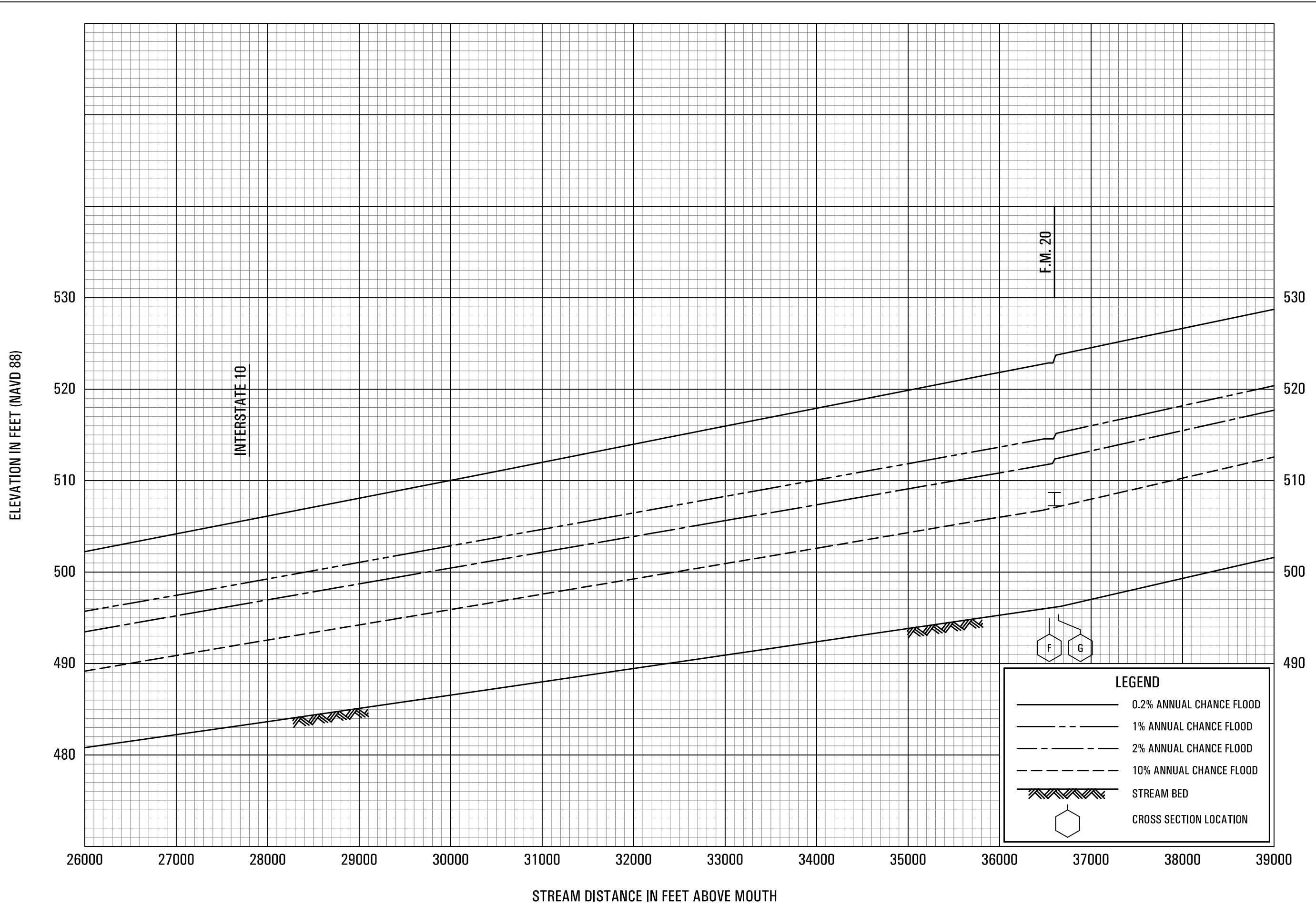
**GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**



FLOOD PROFILES

GERONIMO CREEK

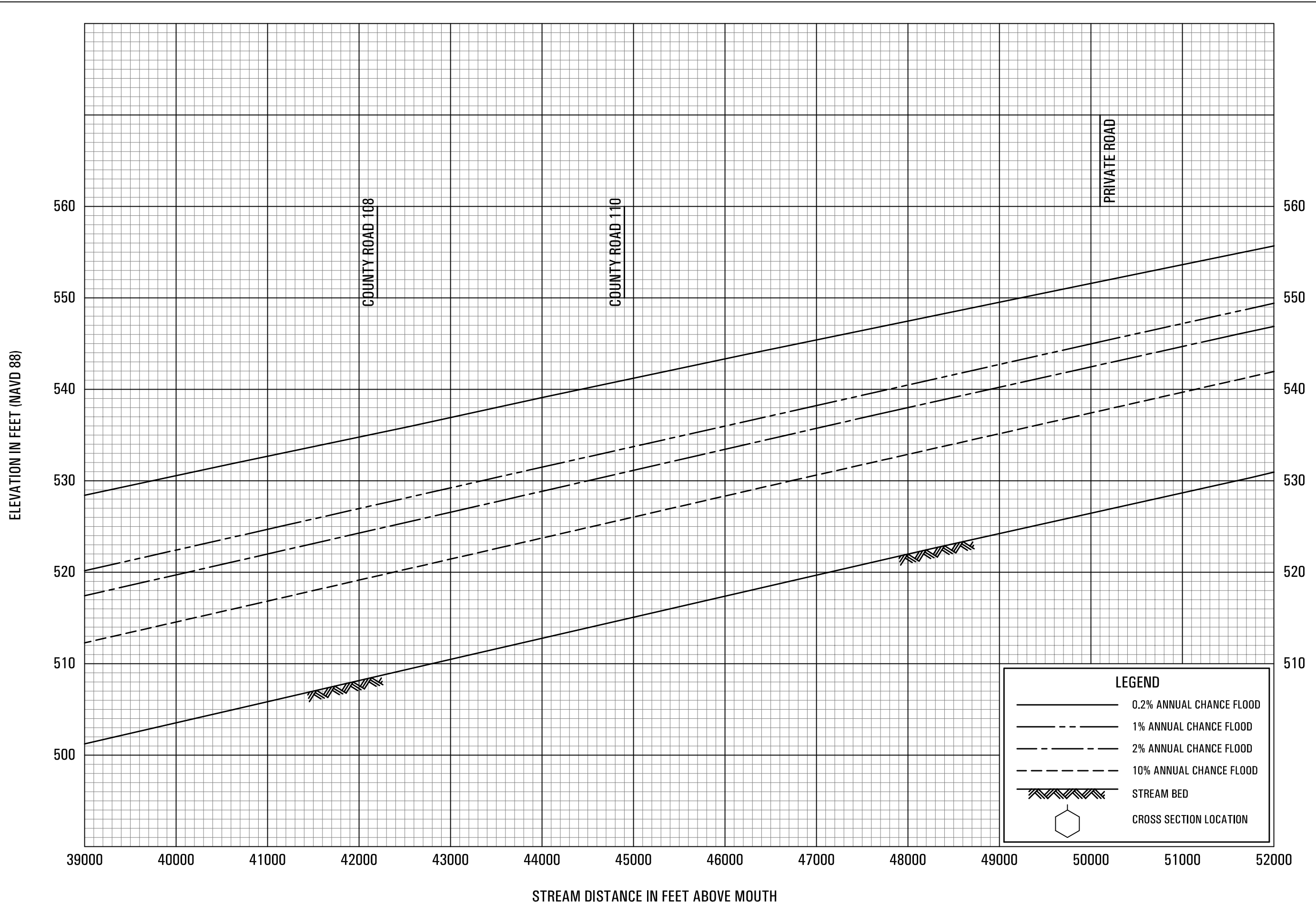
**FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**



FLOOD PROFILES

GERONIMO CREEK

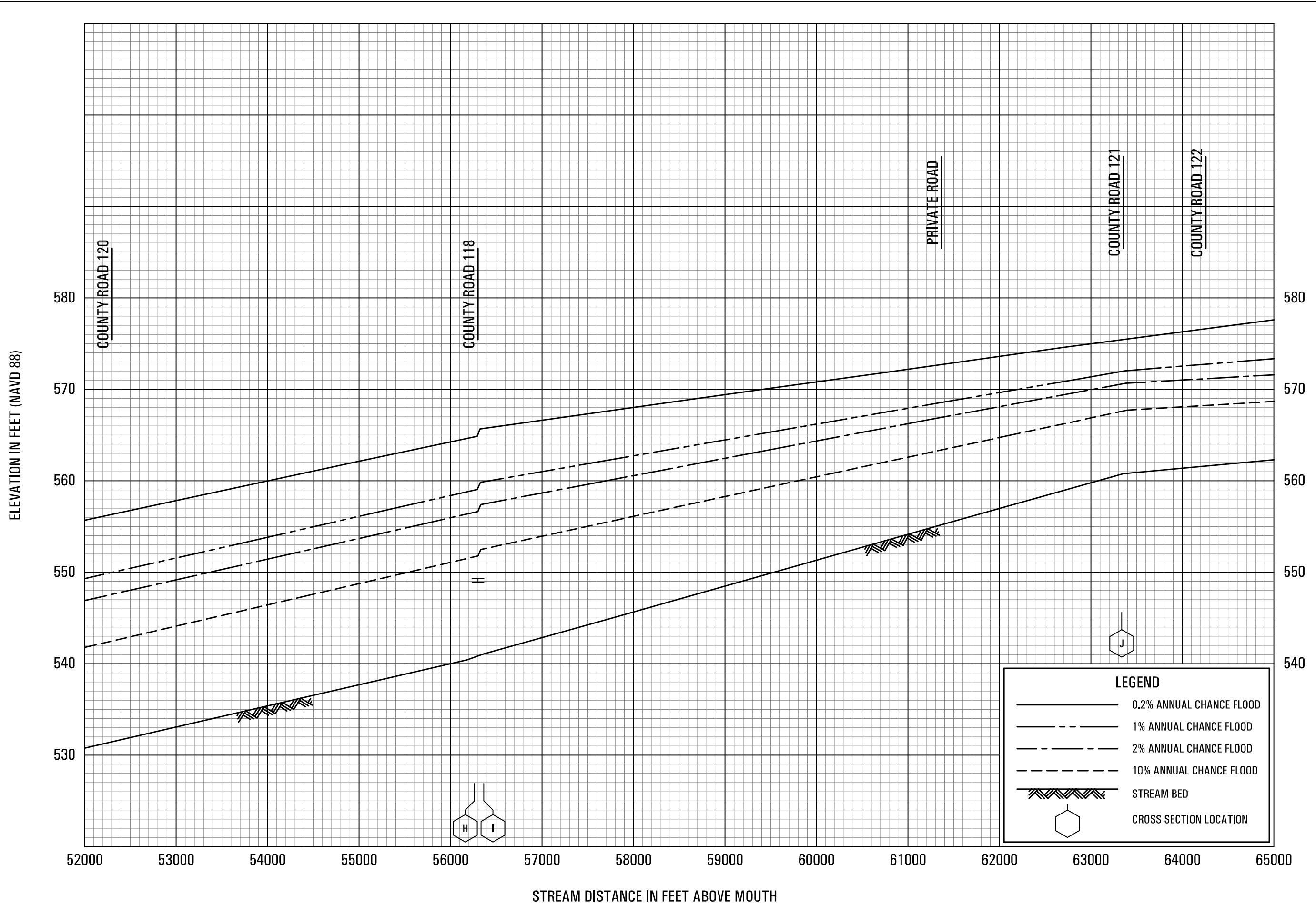
FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES

GERONIMO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
 AND INCORPORATED AREAS

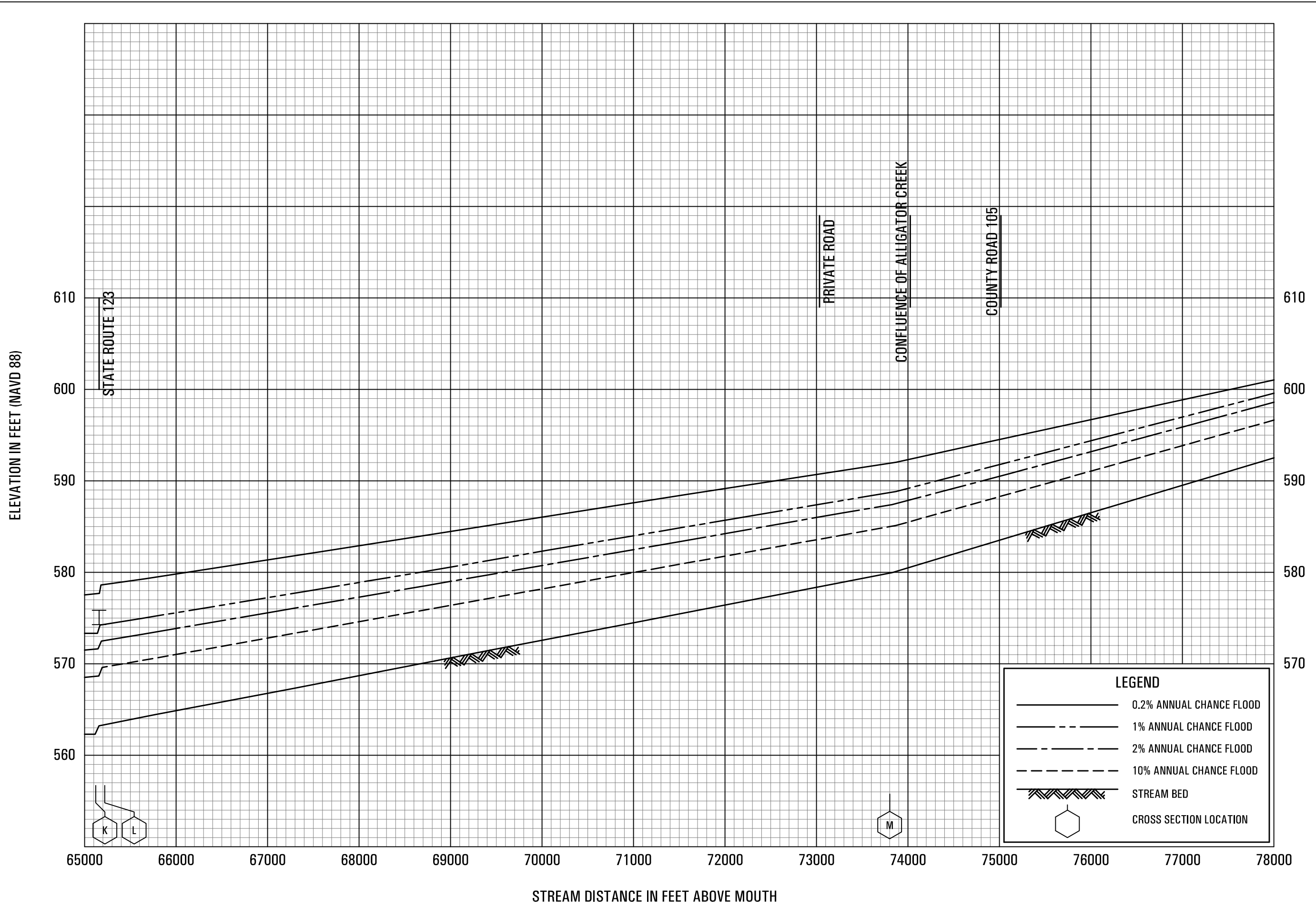


FLOOD PROFILES

GERONIMO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

**GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**

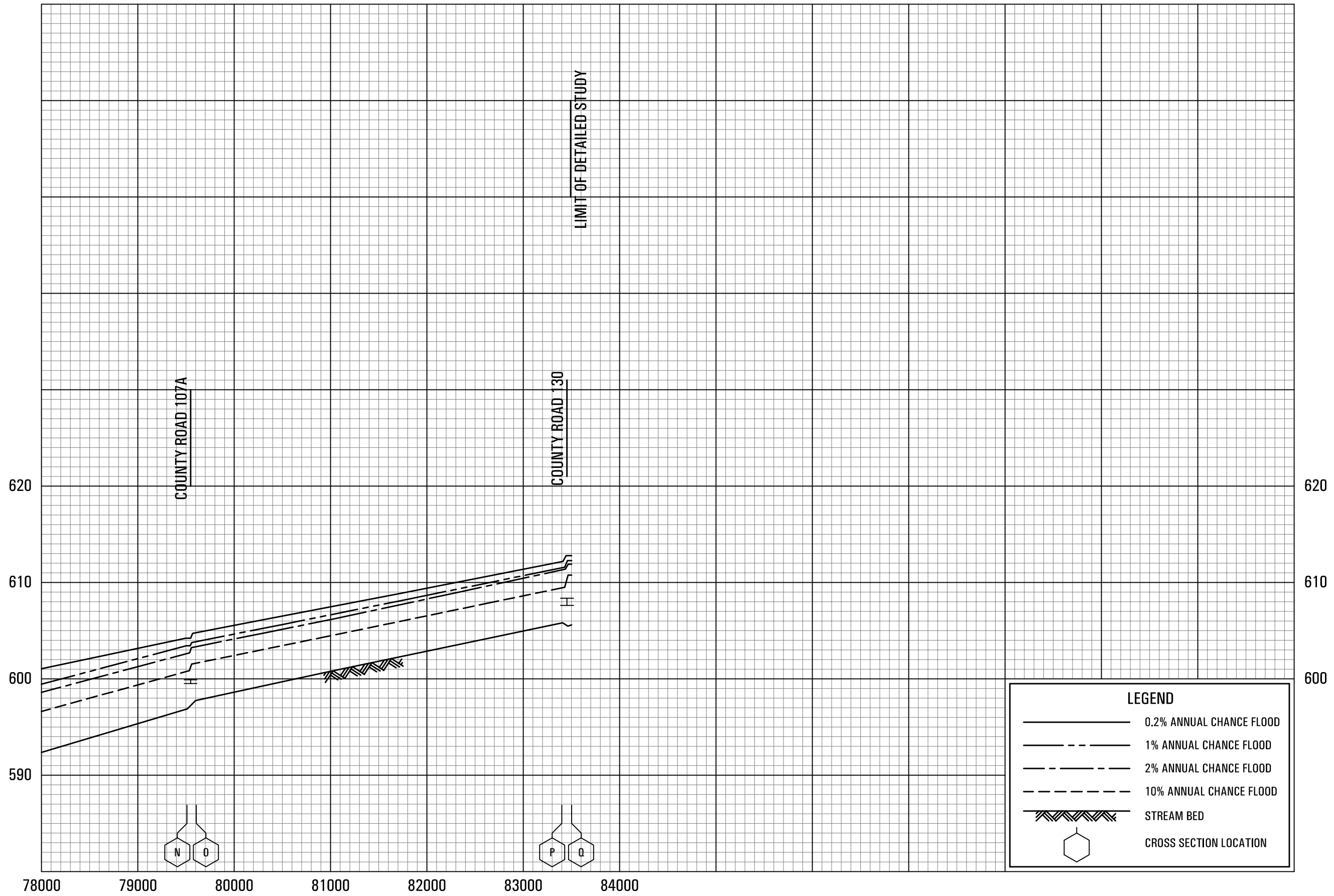


FLOOD PROFILES

GERONIMO CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS**

ELEVATION IN FEET (NAVD 88)



| 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

GERONIMO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
GUADALUPE COUNTY, TX
AND INCORPORATED AREAS