



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Arlington Tarrant County Texas	NO PROJECT	1D-2D HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA WEIR-DAM CHANGES
	COMMUNITY NO.: 485454		
IDENTIFIER	Stream VC(A)-1 Watershed Study	APPROXIMATE LATITUDE AND LONGITUDE: 32.759, -97.136 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 48439C0220L DATE: March 21, 2019	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: March 21, 2019	
TYPE: FIRM	NO.: 48439C0335K DATE: September 25, 2009	PROFILES: 489P, 490P, 490P(a) (NEW), AND 640P (NEW) FLOODWAY DATA TABLE: 7 SUMMARY OF DISCHARGES TABLE: 4	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCES AND REVISED REACHES

See Page 2 for Additional Flooding Sources

Stream VC(A)-1 - From the confluence with Village Creek to the upstream side of West Sanford Street

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Stream VC(A)-1	No BFEs*	BFEs	YES	NONE
	BFEs	BFEs	YES	YES
	No Floodway	Floodway	YES	NONE
	Floodway	Floodway	YES	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



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Washington, D.C. 20472

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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCES AND REVISED REACHES

Stream VC(A)-1 - From the confluence with Village Creek to the upstream side of West Sanford Street
Stream VC(A)-1 Tributary - From the confluence with Stream VC(A)-1 to approximately 190 feet downstream of I-30

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Stream VC(A)-1	Zone X (shaded)	Zone X (shaded)	YES	YES
	Zone X (unshaded)	Zone X (shaded)	YES	NONE
	Zone A	Zone A	NONE	YES
	Zone X (unshaded)	Zone AE	YES	NONE
	Zone AE	Zone AE	YES	YES
Stream VC(A)-1 Tributary	Zone A	Zone AE	YES	YES
	No BFEs*	BFEs	YES	NONE
	BFEs	BFEs	NONE	YES
	Zone X (unshaded)	Zone X (shaded)	YES	NONE
	Zone AE	Zone AE	YES	YES
	Zone X (unshaded)	Zone AE	YES	NONE

* BFEs - Base Flood Elevations

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

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 480596 **Name:** City of Fort Worth, Texas

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 48439C0220L DATE: March 21, 2019

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY
PROFILE: 489P
SUMMARY OF DISCHARGES TABLE: 4

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

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

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

A handwritten signature in black ink, appearing to read "Rick F. Sacbbit".

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Ms. Sandy Keefe
Director, Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 202
800 North Loop 288
Denton, TX 76209
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We are processing a revised FIRM and FIS report for Tarrant County in our countywide format; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the countywide FIRM and FIS report, which present information from the effective FIRMs and FIS reports for your community and other incorporated communities in Tarrant County, were submitted to your community for review on November 13, 2020. We will incorporate the modifications made by this LOMR into the countywide FIRM and FIS report before they become effective.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at

https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp

LOCAL NEWSPAPER

Name: *Fort Worth Star-Telegram*

Dates: July 29, 2021 and August 5, 2021

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Mapping and Insurance eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <https://www.fema.gov/flood-insurance>.

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TABLE 4 – SUMMARY OF DISCHARGES (continued)

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. mile)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10% Annual Chance</u>	<u>2% Annual Chance</u>	<u>1% Annual Chance</u>	<u>0.2% Annual Chance</u>
<u>Redelineation Detailed Study Streams</u>					
VILLAGE CREEK (CONTINUED)					
Approximately 0.85 mile downstream of Oak Grove Road	63.78	20,050	33,350	39,800	52,750
Approximately 1.93 miles upstream of Hargrove	55.78	19,400	30,950	36,700	48,100
Approximately 1.21 miles upstream of Hargrove	31.65	10,700	15,600	18,450	25,000
STREAM VC(A)-1					
At confluence with Village Creek	2.65	3,260 ²	4,310 ²	4,980 ²	6,180 ²
At Lamar Boulevard	2.36	3,530	4,690	5,280	6,330
At Interstate Route 30 Fort Worth-Dallas Turnpike	1.08	2,190	2,930	3,350	4,060
Upstream of North Fielder Road	0.95	2,090	2,790	3,190	3,840
Downstream of West Randall Mill Road	0.59	580	820	990	1,330
At West Sanford Boulevard	0.25	30	30	60	440
STREAM VC(A)-2					
At confluence with Village Creek	143.1	3,350	16,500	25,000	49,300
Upstream of confluence with Village Creek	143.1	0 ¹⁵	13,100	21,600	45,800
STREAM VC-1					
Approximately 1,200 feet downstream of Cravens Road	2.02	1,940	2,980	3,430	4,460
At Village Creek Road	1.27	2,590	3,410	3,780	4,760
STREAM VC-2					
Approximately 0.54 mile downstream from East Loop 820 South	3.99	3,040	4,500	5,350	7,580
At Parker-Henderson Road	2.86	3,450	4,790	5,460	7,060
At Shackleford Road	1.16	2,020	2,700	3,010	3,800
STREAM VC-2A					
At confluence with Stream VC-2	0.40	677	910	1,251	1,610
STREAM VC-3					
At confluence with Village Creek	1.90	2,220	3,040	3,415	4,300
At a point approximately 800 feet upstream of northern Kennedale corporate limits	1.10	1,400	2,010	2,240	2,860
At Kennedale Sublett Road	0.70	950	1,285	1,440	1,815
At a point approximately 100 feet upstream of confluence of Stream VC-4A	3.10	2,860	3,990	4,500	5,660
STREAM VC-4					
At confluence with Village Creek	5.40	3,970	5,830	6,820	8,810

← REVISIED DATA

²Decreases due to storage routing effects

TABLE 4 – SUMMARY OF DISCHARGES (continued)

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. mile)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10% Annual Chance</u>	<u>2% Annual Chance</u>	<u>1% Annual Chance</u>	<u>0.2% Annual Chance</u>
<u>Detailed Study Streams</u>					
STREAM VC(A)-1 TRIBUTARY At confluence with Stream VC(A)-1	0.91	1,060	1,380	1,510	1,690

↑
REVISED DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: December 3, 2021

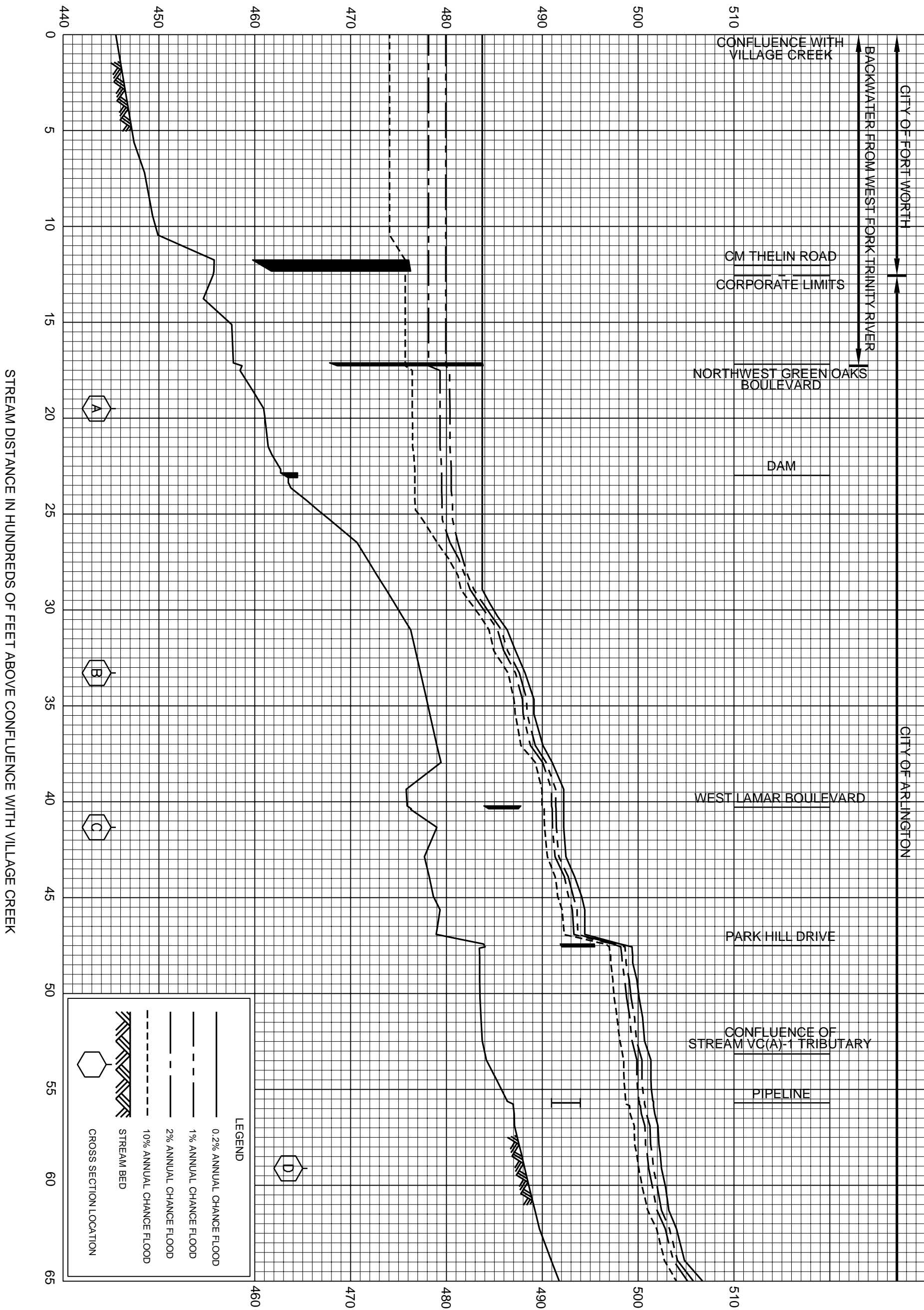
FLOODING SOURCE		FLOODWAY			BASE FLOOD			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WATER SURFACE ELEVATION			INCREASE
					REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	
					FEET (NAVD 88)			
Village Creek (continued)								
S	90,600 ¹	1,500	12,295	4.4	608.2	608.2	609.1	0.9
T	95,230 ¹	1,600	15,656	3.5	617.9	617.9	618.5	0.6
U	100,070 ¹	1,177	13,065	4.2	627.9	627.9	628.1	0.2
V	107,400 ¹	1,700	11,596	3.4	640.3	640.3	641.1	0.8
W	110,700 ¹	1,100	9,057	4.4	645.8	645.8	646.5	0.7
X	114,280 ¹	1,250	11,717	3.4	650.5	650.5	651.4	0.9
Y	116,150 ¹	1,000	7,963	5.0	654.6	654.6	655.1	0.5
Z	120,640 ¹	1,700	10,175	3.6	657.4	657.4	658.2	0.8
AA	125,670 ¹	1,520	6,027	3.7	666.3	666.3	666.6	0.3
Stream VC(A)-1								
A	1,950 ²	95	1,429	3.6	480.4	480.4	481.1	0.7
B	3,330 ²	117	809	6.6	487.6	487.6	487.6	0.0
C	4,130 ²	95	806	6.5	491.5	491.5	491.6	0.1
D	5,910 ²	96	731	4.9	501.6	501.6	502.4	0.8
E	7,860 ²	95	484	6.9	522.7	522.7	522.7	0.0
F	9,300 ²	64	493	6.6	537.6	537.6	538.6	1.0
G	9,700 ²	81	690	4.6	542.8	542.8	543.5	0.7
				↑ REVISED DATA				

¹Stream distance in feet above confluence with West Fork Trinity River

²Stream distance in feet above confluence with Village Creek

TABLE 7	FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS	FLOODWAY DATA REVISED TO REFLECT LOMR EFFECTIVE: December 3, 2021
		VILLAGE CREEK – STREAM VC(A)-1

ELEVATION IN FEET (NAVD 88)



FEDERAL EMERGENCY MANAGEMENT AGENCY

TARRANT COUNTY, TX
AND INCORPORATED AREAS

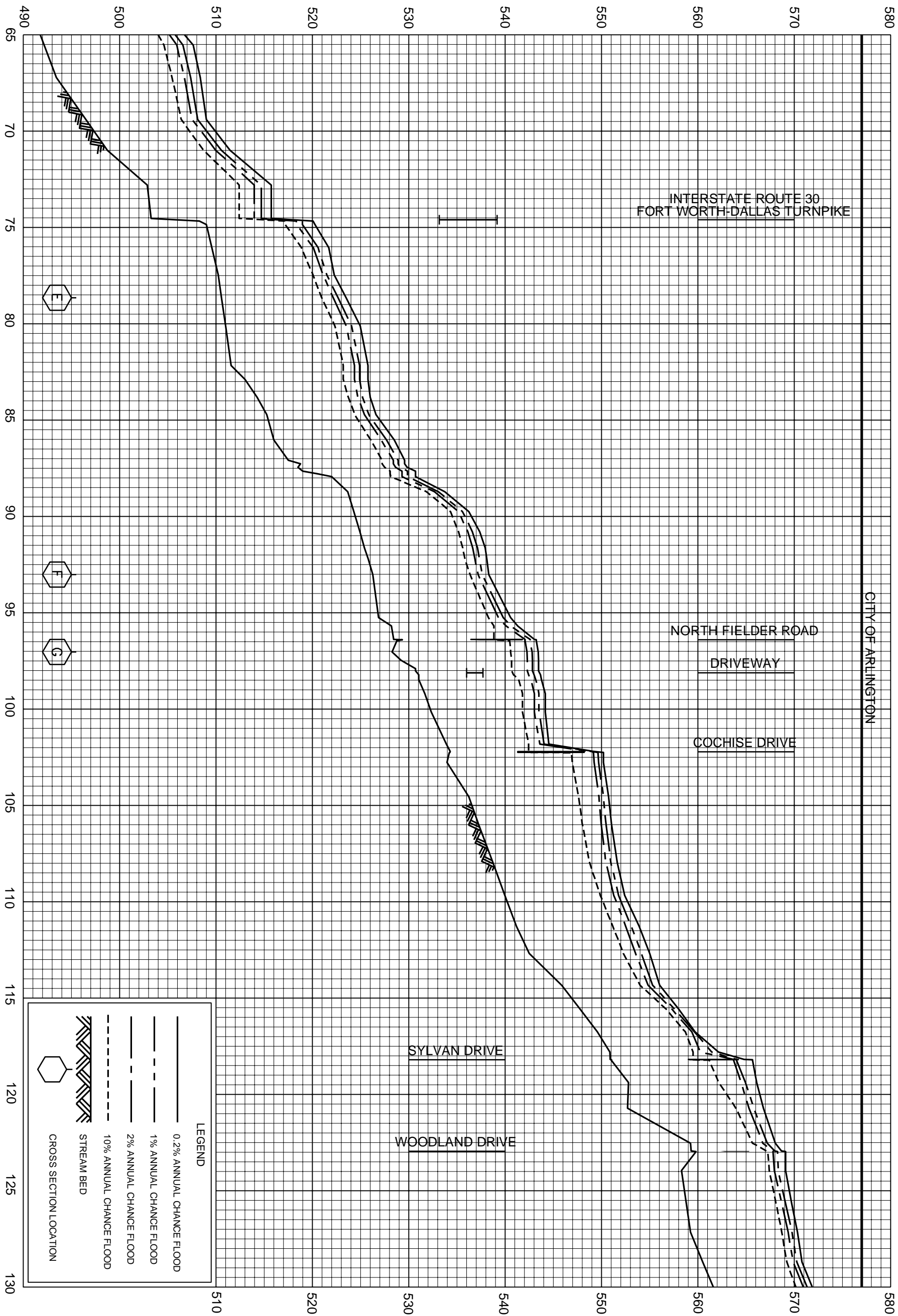
FLOOD PROFILES

REVISED TO
REFLECT LOMR
EFFECTIVE: December 3, 2021

STREAM VC(A)-1

489P

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN HUNDREDS OF FEET ABOVE CONFLUENCE WITH VILLAGE CREEK

LEGEND

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

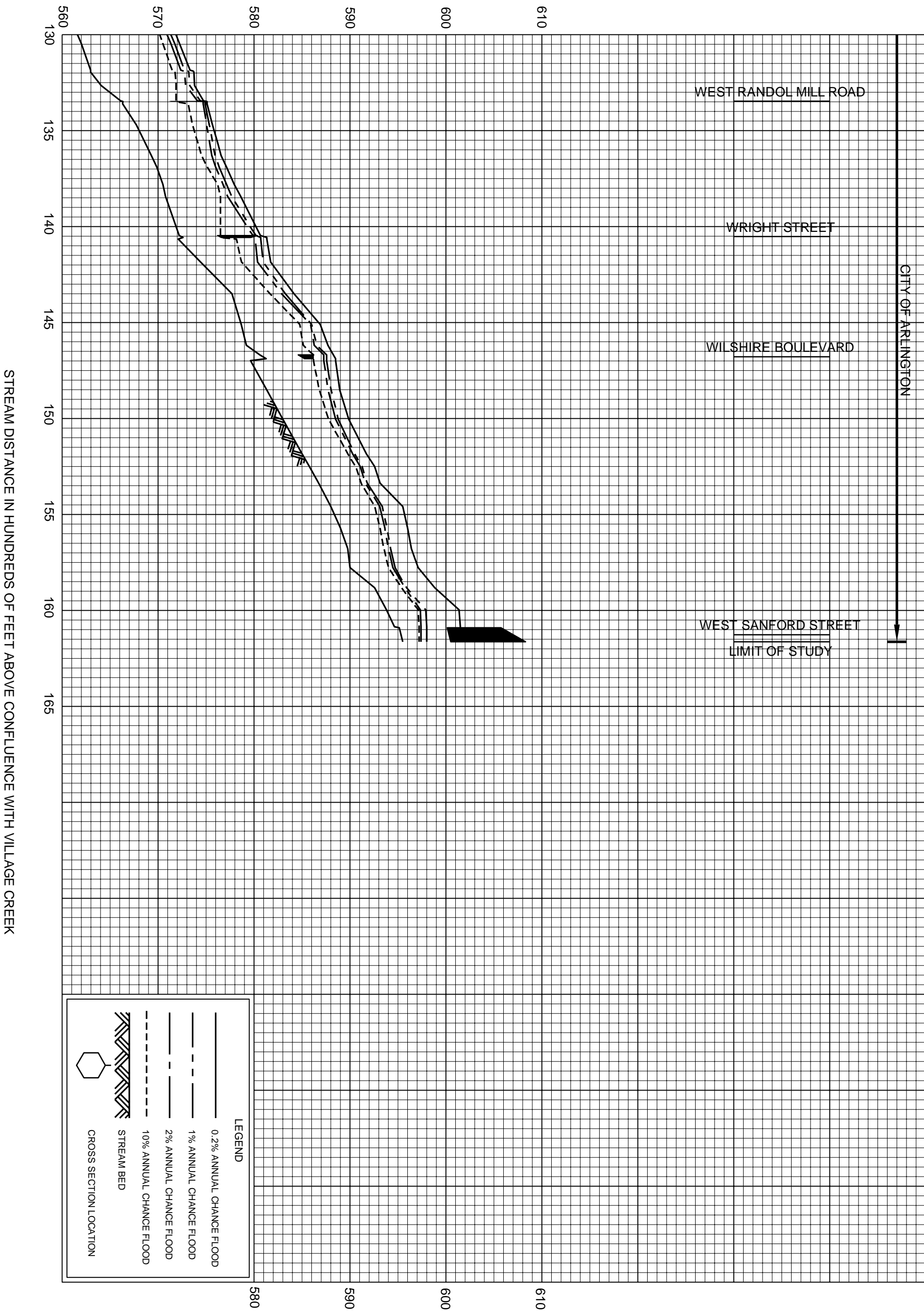
FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
 AND INCORPORATED AREAS

FLOOD PROFILES
STREAM VC(A)-1

REVISED TO REFLECT LOMR
 EFFECTIVE: December 3, 2021

490P

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

ELEVATION IN FEET (NAVD 88)

CITY OF ARLINGTON

CONFLUENCE WITH
STREAM VC(A)-1

LIMIT OF STUDY

0 3 6 9 12

480

485

490


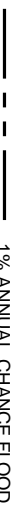
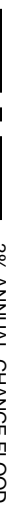



495

500

505

STREAM DISTANCE IN HUNDREDS OF FEET ABOVE CONFLUENCE WITH STREAM VC(A)-1

LEGEND

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

490

495

500

505

FEDERAL EMERGENCY MANAGEMENT AGENCY

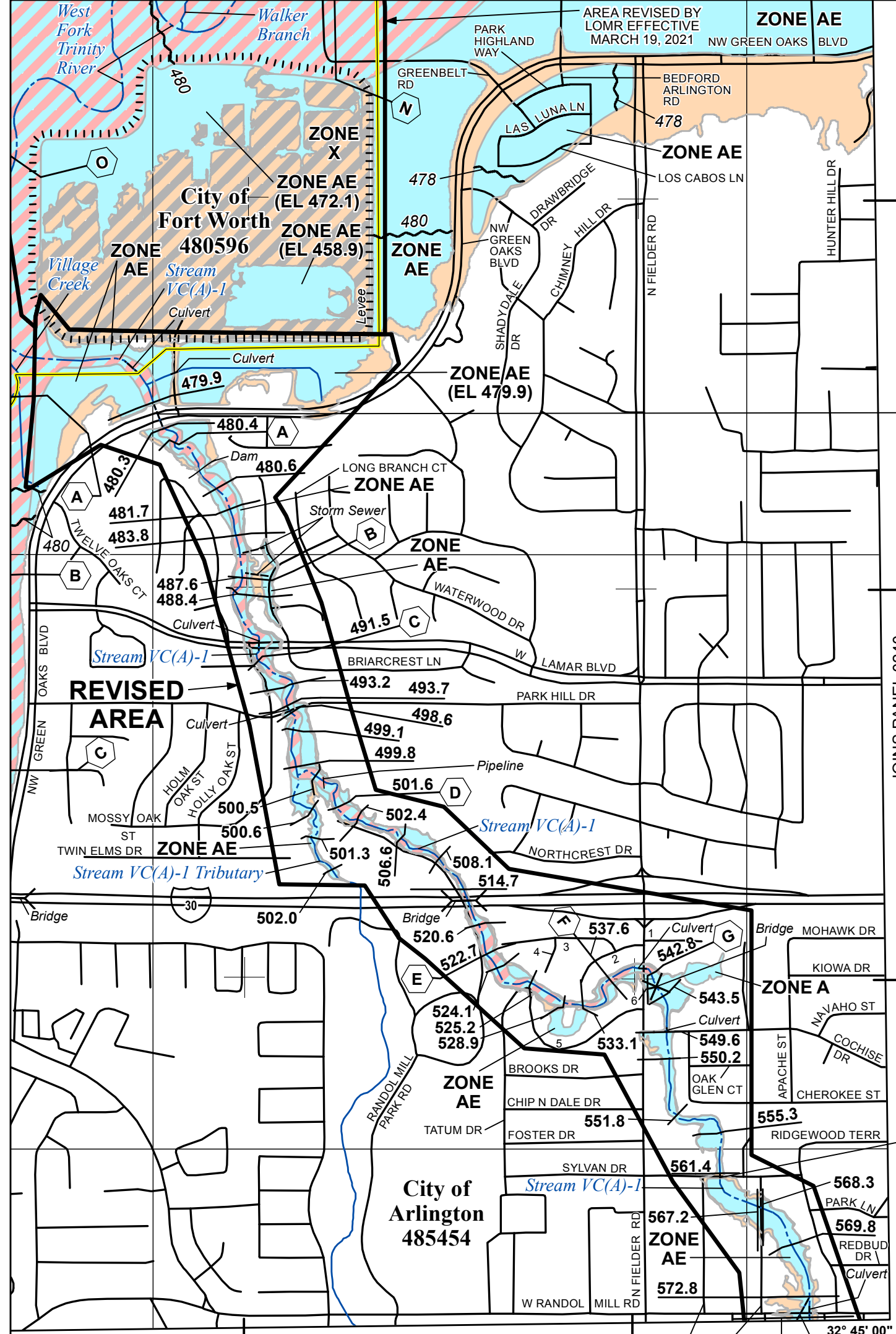
TARRANT COUNTY, TX
AND INCORPORATED AREAS

FLOOD PROFILES

REVISED TO
REFLECT LOMR
EFFECTIVE: December 3, 2021

STREAM VC(A)-1 TRIBUTARY

640P



AREA REVISED BY LOMR EFFECTIVE MARCH 19, 2021

ZONE AE

City of Fort Worth 480596

City of Arlington 485454

36,28000m N

36,27000m N

36,26000m N

67,4000m E

JOINS PANEL 0335

67,5000m E

32° 45' 00" 97° 07' 30"

KEY TO NUMBERED STREETS

1	NORTHLAKE CT
2	NORTHWOOD CT
3	NORTHAVEN CT
4	NORTHBROOK CT
5	SPRINGLAKE DR
6	PRIVATE DRIVE

JOINS PANEL 0240

1%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes, Zone X

Map Projection:
NAD 1983 StatePlane Texas North Central FIPS 4202 Feet;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet 1:12,000

FEDERAL EMERGENCY MANAGEMENT AGENCY

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

TARRANT COUNTY, TEXAS
and Incorporated Areas

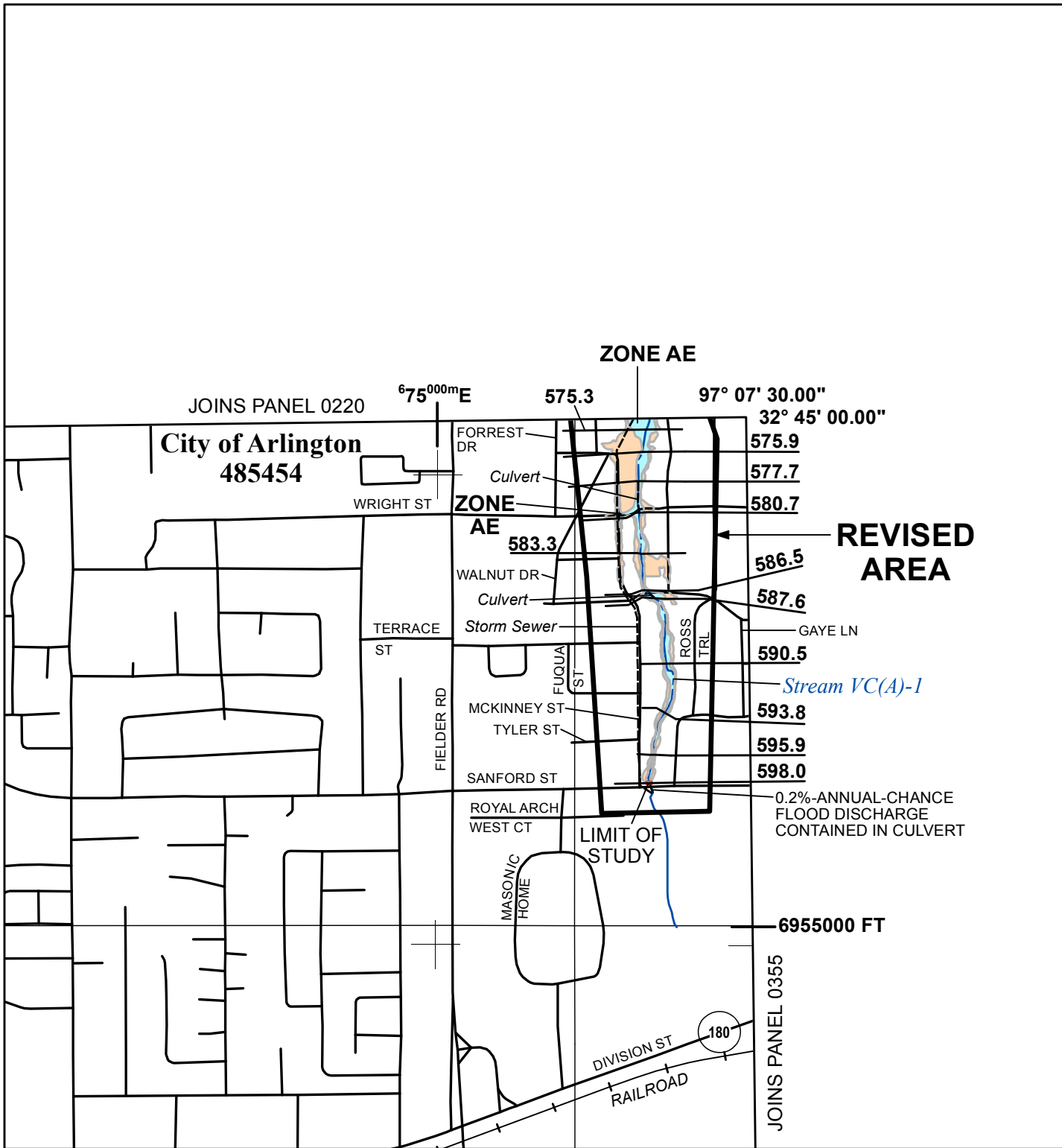
PANEL 220 OF 495

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
ARLINGTON, CITY OF	485454	0220	L
FORT WORTH, CITY OF	480596	0220	L
HURST, CITY OF	480601	0220	L

REVISED TO REFLECT LOMR EFFECTIVE: December 3, 2021

VERSION NUMBER 2.1.3.0
MAP NUMBER 48439C0220L
MAP REVISED SEPTEMBER 25, 2009



SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes. Zone X

SCALE

Map Projection:
NAD 1983 StatePlane Texas North Central FIPS 4202 Feet;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet 1:12,000

0 500 1,000 2,000 Feet
0 150 300 600 Meters

FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

TARRANT COUNTY, TEXAS
and Incorporated Areas
PANEL 335 OF 495

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
TARRANT COUNTY	480582	0335	K
ARLINGTON, CITY OF	485454	0335	K
DALWORTHINGTON GARDENS,	481013	0335	K
CITY OF	480596	0335	K
FORT WORTH, CITY OF	480596	0335	K
PANTEGO, TOWN OF	481116	0335	K

REVISED TO REFLECT LOMR EFFECTIVE: December 3, 2021

VERSION NUMBER
2.1.3.0

MAP NUMBER
48439C0335K

MAP REVISED
SEPTEMBER 25, 2009