



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	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 485454		
IDENTIFIER	Stream WF(A)-1 Watershed Study	APPROXIMATE LATITUDE & LONGITUDE: 32.778, -97.064 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 48439C0240L DATE: March 21, 2019		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: March 21, 2019 PROFILES: 561P, 562P, 563P 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 & REVISED REACHES

See Page 2 for Additional Flooding Sources

Stream WF(A)-1 - From confluence with West Fork Trinity River to approximately 4,300 feet upstream of Ballpark Way

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Stream WF(A)-1	BFEs*	BFEs	YES	YES
	Zone X (unshaded)	Zone A	YES	NONE
	Zone AE	Zone AE	YES	YES
	Floodway	Floodway	YES	NONE

* 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 <http://www.fema.gov/nfip>.

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



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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCES & REVISED REACHES

Stream WF(A)-1 - From confluence with West Fork Trinity River to approximately 4,300 feet upstream of Ballpark Way
Stream WF(A)-1 Tributary 1 - From confluence with Stream WF(A)-1 to approximately 2,400 feet upstream of confluence with Stream WF(A)-1
Stream WF(A)-1 Tributary 2 - From confluence with Stream WF(A)-1 to approximately 1,800 feet upstream of confluence with Stream WF(A)-1

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Stream WF(A)-1	Zone A	Zone A	NONE	YES
Stream WF(A)-1 Tributary 1	Zone X (unshaded)	Zone A	YES	NONE
Stream WF(A)-1 Tributary 2	Zone X (unshaded)	Zone A	YES	NONE

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 <http://www.fema.gov/nfip>.

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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 <http://www.fema.gov/nfip>.

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Patrick "Rick" F. Sacbibit, P.E., Branch Chief
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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 206
800 North Loop 288
Denton, TX 76209
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA 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 <http://www.fema.gov/nfip>.

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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: June 17, 2020 and June 24, 2020

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 <http://www.fema.gov/nfip>.

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Engineering Services Branch
Federal Insurance and Mitigation Administration

TABLE 4 – SUMMARY OF DISCHARGES

<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>
Stream WF(A)-1					
At confluence with West Fork Trinity River	1.79	3,100	4,440	4,980	6,260
600 Feet downstream of Burney Road	1.17	2,510	3,510	4,020	4,930
500 Feet upstream of Forest Oak	0.65	2,320	3,240	3,560	4,570

↑
REVISED DATA

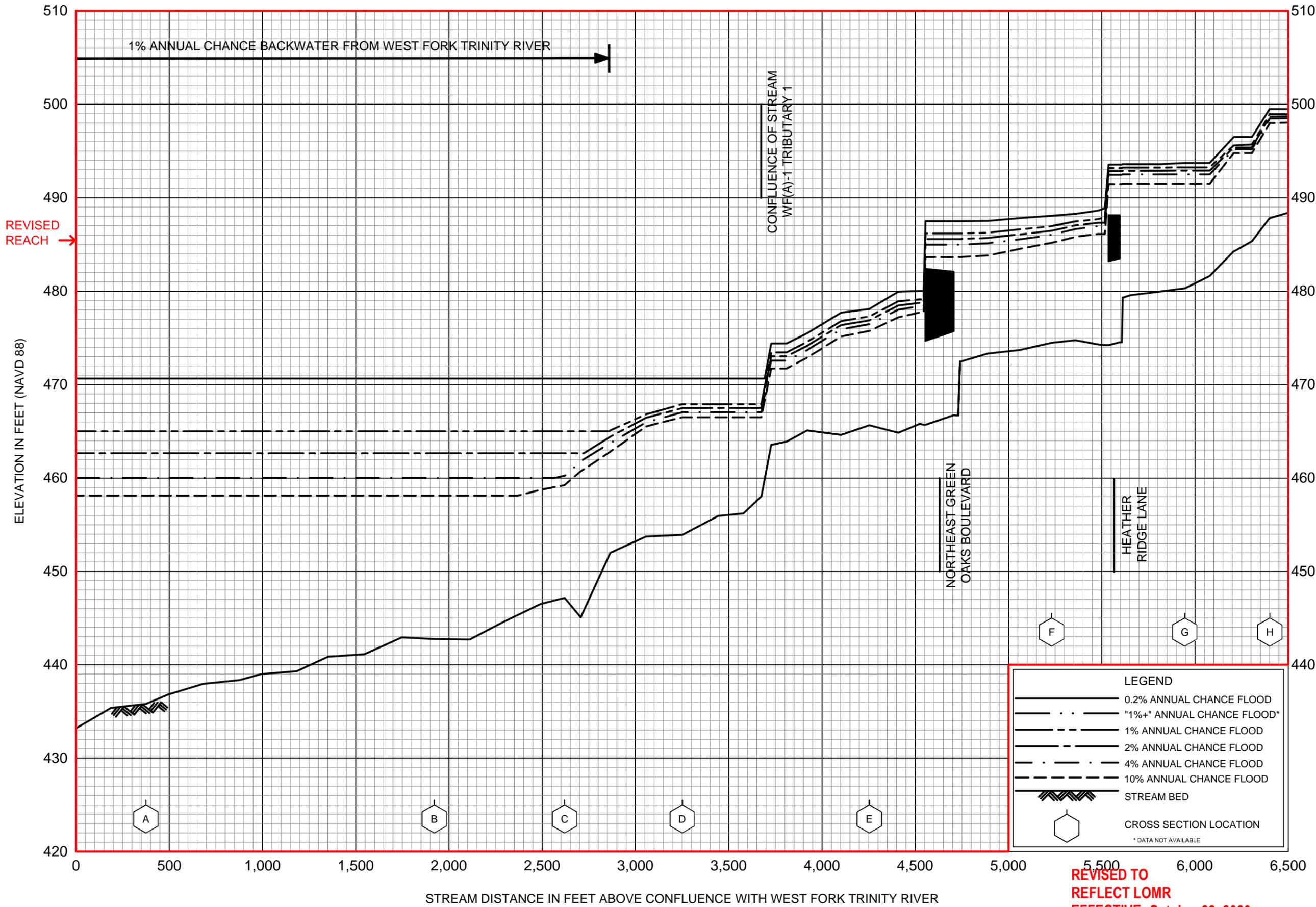
**REVISED TO
REFLECT LOMR
EFFECTIVE: October 22, 2020**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD88) ²	WITHOUT FLOODWAY (FEET NAVD88) ³	WITH FLOODWAY (FEET NAVD88)	INCREASE (FEET)
Stream WF(A)-1								
A	375	328	1,275	3.9	464.8	456.1 ⁴	457.1	1.0
B	1,921	130	1,094	4.7	464.8	458.9 ⁴	459.9	1.0
C	2,620	104	552	9.7	464.8	461.6 ⁴	462.2	0.6
D	3,251	117	1,030	5.2	467.9	467.9	468.6	0.7
E	4,254	84	538	8.7	477.3	477.7	477.7	0.0
F	5,232	83	601	7.4	487.0	486.9	487.6	0.7
G	5,946	52	495	8.2	493.3	493.2	494.2	1.0
H	6,402	76	429	9.8	499.0	499.0	499.5	0.5
I	6,682	59	400	10.3	501.4	501.0	502.0	1.0
J	7,977	48	321	11.0	512.6	512.8	513.2	0.4
K	8,252	90	653	5.5	520.8	520.7	521.6	0.9
L	10,734	50	367	9.3	536.6	537.1	537.3	0.2
M	11,281	70	270	12.2	541.0	541.3	541.3	0.0
N	11,607	87	396	8.1	544.0	544.1	544.1	0.0
O	11,866	129	706	4.5	547.9	547.6	548.2	0.6
P	12,587	106	385	7.0	549.9	549.7	550.3	0.6
Q	13,425	137	801	3.4	554.5	554.8	555.6	0.8
R	13,698	154	464	4.4	555.0	554.6	555.6	1.0

¹ Stream distance in feet above confluence with Stream West Fork Trinity River
² Elevation calculated using unsteady model
³ Elevation was calculated using a calibrated steady-state floodway model
⁴ Elevation computed without consideration of backwater effects from West Fork Trinity River

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TABLE 7	FEDERAL EMERGENCY MANAGEMENT AGENCY TARRANT COUNTY, TX AND INCORPORATED AREAS	FLOODWAY DATA	<div style="border: 1px solid red; padding: 2px; display: inline-block;">REVISED DATA</div>
		STREAM WF(A)-1	

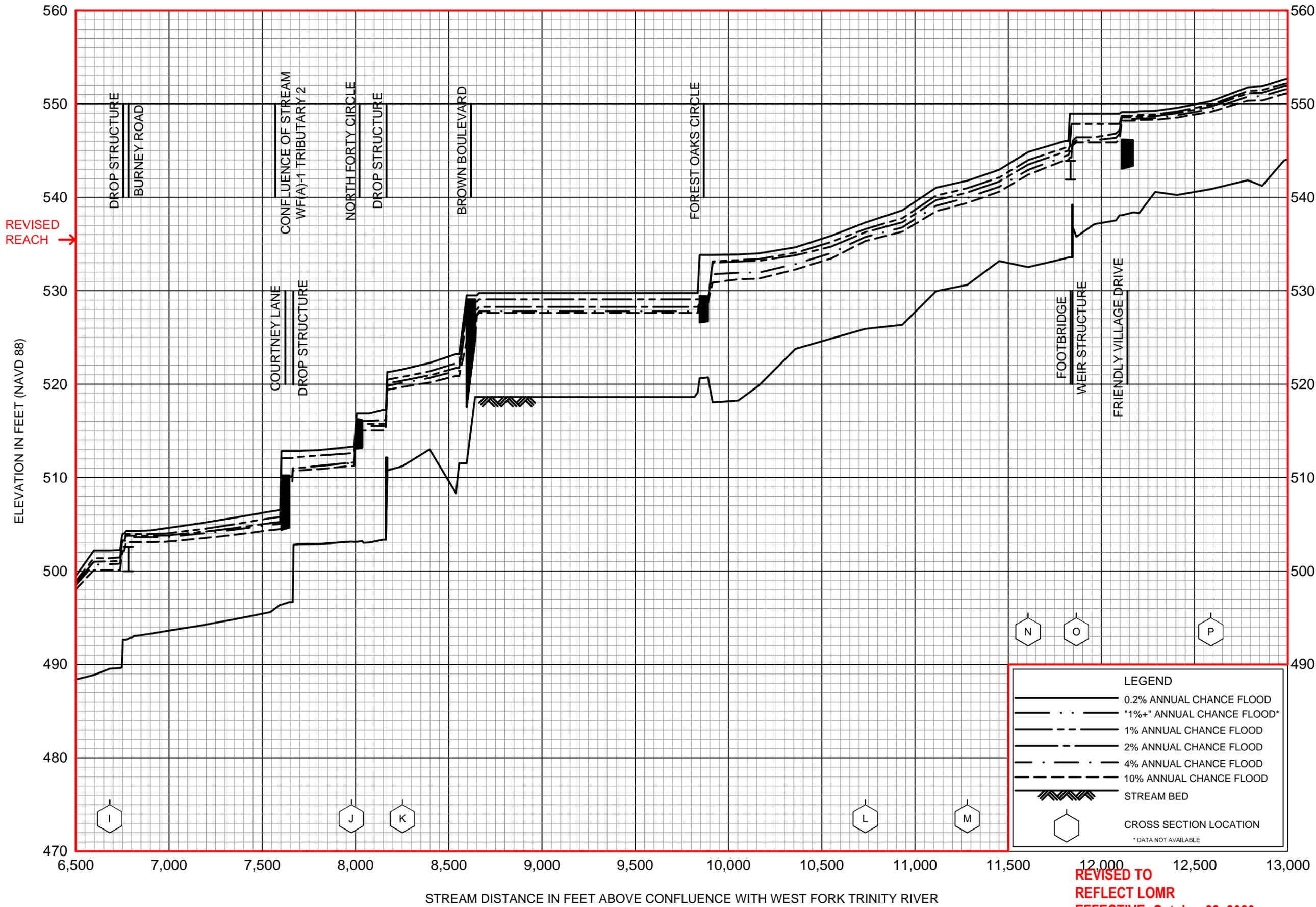


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FLOOD PROFILES

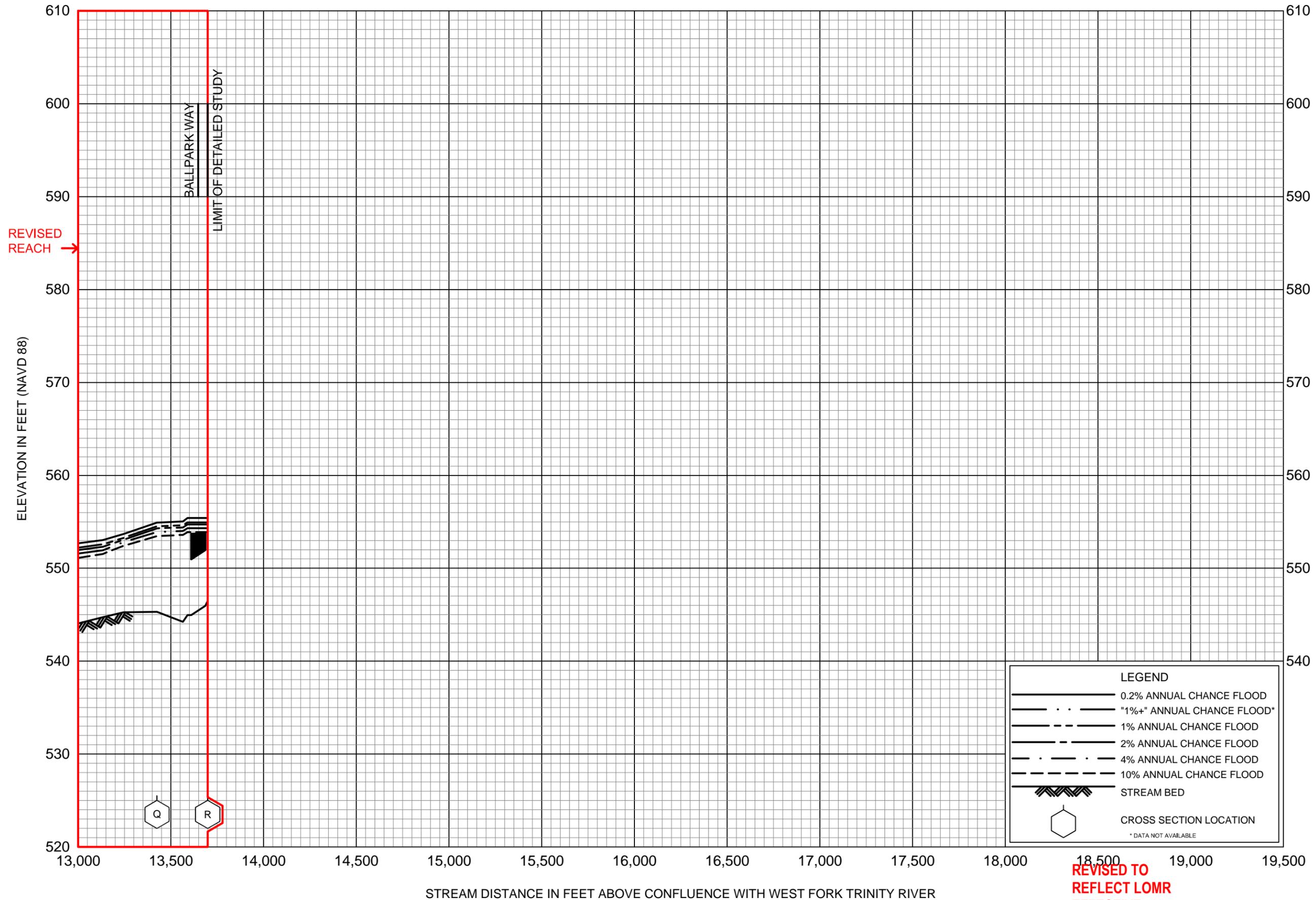
STREAM WF(A)-1

FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES
STREAM WF(A)-1

FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
AND INCORPORATED AREAS



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FLOOD PROFILES

STREAM WF(A)-1

FEDERAL EMERGENCY MANAGEMENT AGENCY
TARRANT COUNTY, TX
AND INCORPORATED AREAS

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

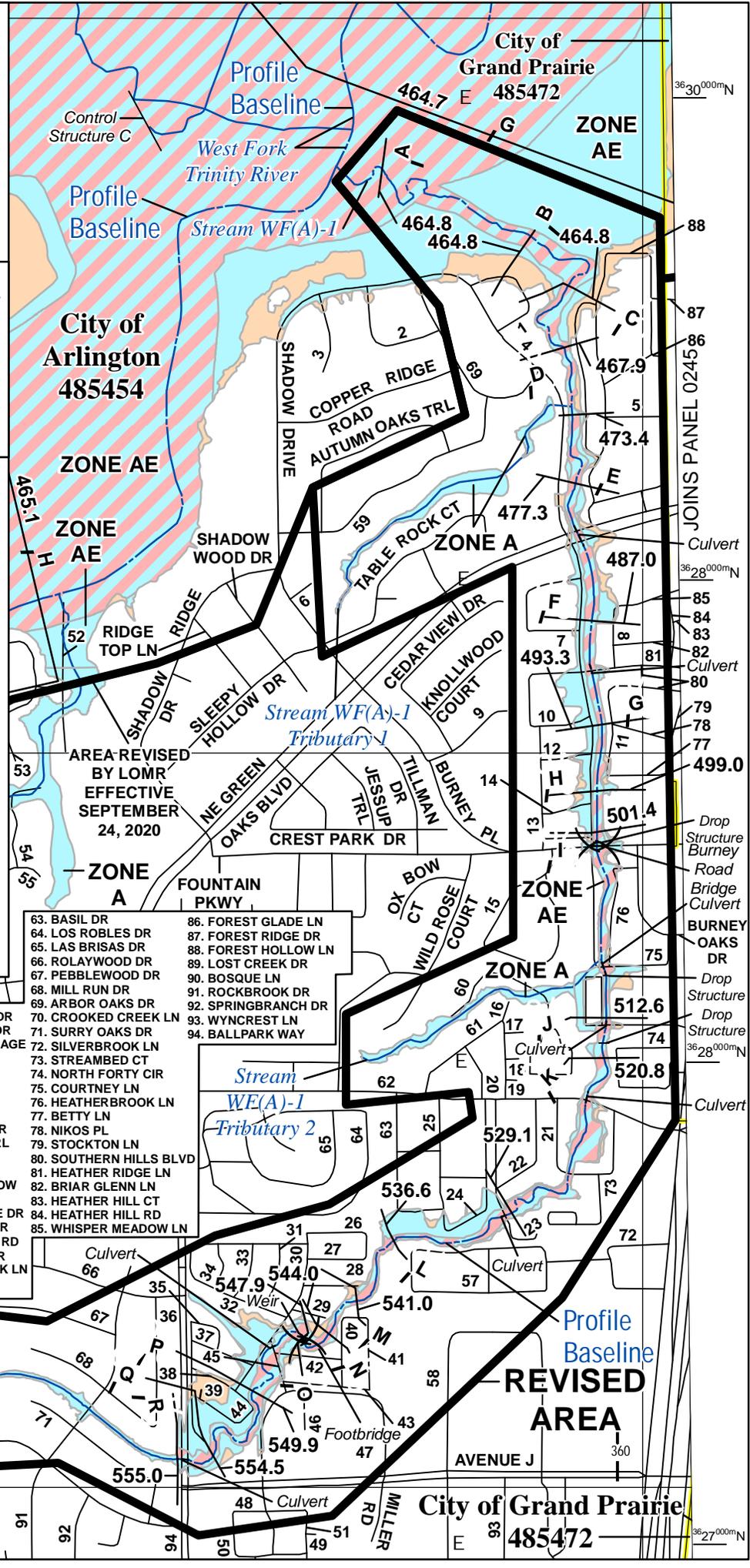
PANEL **240** OF **495**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
ARLINGTON, CITY OF	485454	0240	L
EULESS, CITY OF	480593	0240	L
FORT WORTH, CITY OF	480596	0240	L
GRAND PRAIRIE, CITY OF	485472	0240	L
TARRANT COUNTY	480582	0240	L

REVISÉD TO REFLECT LOMR EFFECTIVE: October 22, 2020

VERSION NUMBER 2.1.3.0
MAP NUMBER 48439C0240L
MAP REVISED MARCH 21, 2019



- ZONE A KEY TO NUMBERED STREETS**
- | | | |
|----------------------|---------------------|----------------------|
| 1. RIVER ROCK CIR | 21. SPILLWAY LN | 43. EUCALYPTUS DR |
| 2. STONE BRIDGE DR | 22. FOREST OAKS LN | 44. ELDERWOOD DR |
| 3. IRON STONE | 23. FOREST OAKS CIR | 45. FRIENDLY VILLAGE |
| 4. FORESTWOOD DR | 24. BAMBOO DR | 46. HARBOR WAY |
| 5. FOREST DALE LN | 25. BALSAM DR | 47. HARBOR |
| 6. SHADOW CT | 26. ACACIA | 48. GRENABLE DR |
| 7. IVORY BROOK CT | 27. ASHGROVE DR | 49. CALAIS WAY |
| 8. HEATHERWOOD LN | 28. APRICOT GLEN DR | 50. DUMONT DR |
| 9. PINE HOLLOW CT | 29. BEECHWOOD DR | 51. BONAPARTE DR |
| 10. BROOKLINE CT | 30. ROSEDALE LN | 52. WRANGLER TRL |
| 11. ALEXIS AVE | 31. SWEETPEA | 53. RED FOX |
| 12. RIDGE OAK LN | 32. POPLAR | 54. MARK TWAIN |
| 13. COUNTRY RIDGE LN | 33. VIOLET | 55. HIDDEN MEADOW |
| 14. WHISPER RIDGE LN | 34. WILDFLOWER | 56. WILDER LN |
| 15. WALNUT HILL CIR | 35. BISE PLACE | 57. HOLLOWRIDGE DR |
| 16. PINEGROVE CIR | 36. WILLOWGLEN LN | 58. CORPORATE DR |
| 17. ORANGEGROVE CIR | 37. GOODWIN DR | 59. CASTLE ROCK RD |
| 18. PEARGROVE CIR | 38. ELDERWOOD DR | 60. THOMASON CIR |
| 19. PLUMGROVE CIR | 39. FIRGLEN DR | 61. FOREST BROOK LN |
| 20. ELM FOREST CIR | 40. POINSETTA LN | 62. BROWN BLVD |
| | 41. FERNDALÉ | |
| | 42. BIRCHWOOD DR | |

City of Arlington 485454

City of Grand Prairie 485472

BAIRD-FARM RD

AVENUE J

Profile Baseline

REVISED AREA