



# Federal Emergency Management Agency

Washington, D.C. 20472

JAN 30 2007

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable Lionel Rivera  
Mayor, City of Colorado Springs  
P.O. Box 1575  
Colorado Springs, CO 80901

IN REPLY REFER TO:

Case No.: 05-08-0368P  
Community Name: City of Colorado Springs, CO  
Community No.: 080060  
Effective Date of **MAY 23 2007**  
This Revision:

Dear Mayor Rivera:

The Flood Insurance Study report and Flood Insurance Rate Map for your community have been revised by this Letter of Map Revision (LOMR). Please use the enclosed annotated map panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments specific to this request may be included as referenced in the Determination Document. If you have any questions regarding floodplain management regulations for your community or the National Flood Insurance Program (NFIP) in general, please contact the Consultation Coordination Officer for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Department of Homeland Security's Federal Emergency Management Agency (FEMA) in Denver, Colorado, at (303) 235-4830, or the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP). Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Sincerely,

Patrick, F. Sacbibt, P.E., CFM, Project Engineer .  
Engineering Management Section  
Mitigation Division

For: William R. Blanton Jr., CFM, Chief  
Engineering Management Section  
Mitigation Division

List of Enclosures:

Letter of Map Revision Determination Document  
Annotated Flood Insurance Rate Map  
Annotated Flood Insurance Study Report

cc: The Honorable Sallie Clark  
Chair, El Paso County  
Board of Commissioners

Regional Floodplain Administrator  
Pikes Peak Regional Building Department

J. F. Sato and Associates, Inc.

Engineering and Surveying, Inc.



# 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 Colorado Springs El Paso County Colorado	CHANNELIZATION CULVERT	FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA BASEMAP CHANGES
	COMMUNITY NO.: 080060		
IDENTIFIER	Sand Creek Center Tributary and East Fork LOMR	APPROXIMATE LATITUDE & LONGITUDE: 38.830, -104.720 SOURCE: USGS QUADRANGLE      DATUM: NAD 27	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 08041C0753 F      DATE: March 17, 1997	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: August 23, 1999 PROFILE(S): 205P, 206P, 209P, and 210P FLOODWAY DATA TABLE: 5	
TYPE: FIRM	NO.: 08041C0754 F      DATE: March 17, 1997		

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map; \*\* FBFM - Flood Boundary and Floodway Map; \*\*\* FHBM - Flood Hazard Boundary Map

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

See Page 2 for Additional Flooding Sources

Sand Creek Center Tributary – from just upstream of Airport Road to approximately 1,350 feet upstream of East Frontage Road

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Sand Creek Center Tributary	Zone AE	Zone AE	YES	YES
	Floodway	Floodway	YES	YES
	BFEs*	BFEs	YES	YES
	Zone X (shaded)	Zone X (shaded)	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 Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick F. Sacibit, P.E., CFM, Project Engineer  
Engineering Management Section  
Mitigation Division



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Washington, D.C. 20472

LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Sand Creek East Fork -- from approximately 970 feet downstream of Powers Boulevard to just downstream of Stewart Avenue

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Sand Creek East Fork	Zone AE	Zone AE	YES	YES
	Floodway	Floodway	YES	YES
	BFEs*	BFEs	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES

\* BFEs - Base Flood Elevations

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. 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)**

**OTHER COMMUNITIES AFFECTED BY THIS REVISION**

**CID Number:** 080059

**Name:** El Paso County, Colorado

AFFECTED MAP PANELS			AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM	NO.: 08041C0752 F	DATE: March 17, 1997	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: August 23, 1999 PROFILE(S): 206P FLOODWAY DATA TABLE: 5
TYPE: FIRM	NO.: 08041C0753 F	DATE: March 17, 1997	
TYPE: FIRM	NO.: 08041C0754 F	DATE: March 17, 1997	

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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

**COMMUNITY INFORMATION**

**APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION**

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

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

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

**COMMUNITY REMINDERS**

We based this determination on the 1-percent-annual-chance flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, establish greater flood hazards in this area.

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

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

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Engineering Management Section  
Mitigation Division



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Washington, D.C. 20472

**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. Jeanine D. Petterson  
Director, Federal Insurance and Mitigation Division  
Federal Emergency Management Agency, Region VIII  
Denver Federal Center, Building 710  
P.O. Box 25267  
Denver, CO 80225-0267  
(303) 235-4830

**STATUS OF THE COMMUNITY NFIP MAPS**

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

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "P. Sacbibit".

Patrick F. Sacbibit, P.E., CFM, Project Engineer  
Engineering Management Section  
Mitigation Division



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

### PUBLIC NOTIFICATION OF REVISION

#### PUBLIC NOTIFICATION

FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (FEET NGVD 29)		MAP PANEL NUMBER(S)
		EFFECTIVE	REVISED	
Sand Creek Center Tributary	Approximately 150 feet upstream of Airport Road	6,109	6,108	08041C0753 F
	Approximately 1,250 feet upstream of East Frontage Road	6,168	6,164	08041C0753 F
Sand Creek East Fork	Approximately 810 feet downstream of Powers Boulevard	6,099	6,096	08041C0753 F
	Approximately 140 feet downstream of Stewart Avenue	6,206	6,205	08041C0754 F

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

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below.

LOCAL NEWSPAPER      Name: *El Paso County News*  
    Dates: 02/14/2007                      02/21/2007

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMR Depot, 3601 Eisenhower Avenue, Alexandria, VA 22304. Additional information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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 Engineering Management Section  
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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			INCREASE	
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY WITH FLOODWAY	FEET (NGVD)		
Sand Creek East Fork	A	100	455	11.9	6,038.7	6,038.7	6,038.7	0.0	
	B	100	446	12.2	6,054.3	6,054.3	6,054.3	0.0	
	C	100	450	12.0	6,069.9	6,069.9	6,069.9	0.0	
	D	100	449	12.1	6,085.1	6,085.1	6,085.1	0.0	
	E	102	446	12.0	6,095.1	6,095.1	6,095.1	0.0	
	F	70	489	10.9	6,118.5	6,118.5	6,118.5	0.0	
	G	71	396	13.5	6,136.0	6,136.0	6,136.0	0.0	
	H	148	507	10.5	6,158.8	6,158.8	6,158.8	0.0	
	I	98	444	12.0	6,169.0	6,169.0	6,169.0	0.0	
	J	86	423	12.6	6,177.0	6,177.0	6,177.0	0.0	
	K	10,721	81	415	12.8	6,193.3	6,193.3	6,193.3	0.0
	L	11,347	166	526	10.1	6,207.3	6,207.3	6,207.3	0.0
	M	11,375	173	632	8.4	6,207.9	6,207.9	6,207.9	0.0
	N	12,610	367	699	7.6	6,228.8	6,228.8	6,228.8	0.1
	O	13,720	188	570	10.0	6,241.7	6,241.7	6,241.7	0.0
	P	14,805	125	479	11.1	6,257.9	6,257.9	6,257.9	0.0
	Q	14,885	125	601	8.9	6,259.9	6,259.9	6,259.9	1.0
	R	15,850	228	582	9.2	6,268.7	6,268.7	6,268.7	0.0
	S	16,325	300	678	7.9	6,277.3	6,277.3	6,277.3	0.2
	T	16,995	321	690	7.7	6,291.4	6,291.4	6,291.4	0.6
	U	17,065	326	667	8.0	6,291.4	6,291.4	6,292.1	0.7
	V	17,915	388	1,598	3.3	6,293.4	6,293.4	6,294.0	0.6
	W	18,995	367	683	7.8	6,307.2	6,307.2	6,307.6	0.4
	X	20,525	413	706	7.5	6,326.4	6,326.4	6,327.1	0.7
	Y	22,125	255	620	8.6	6,348.7	6,348.7	6,348.8	0.1
	Z	23,105	397	706	7.6	6,359.9	6,359.9	6,359.9	0.0
AA	24,835	431	705	7.4	6,383.7	6,383.7	6,383.7	0.0	
AB	26,505	353	667	7.8	6,401.0	6,401.0	6,401.5	0.5	

Revised Data

Revised by LOMR dated OCT 07 2004

<sup>1</sup> Feet above confluence with Sand Creek

FLOODWAY DATA

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**EL PASO COUNTY, CO**  
 AND INCORPORATED AREAS

SAND CREEK EAST FORK

MAY 23 2007

TABLE 5



FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	FEET (NGVD)	
Sand Creek Center Tributary	940	40	92	Revised Data	6,106.5	6,106.5	6,106.5	6,106.5	0.0
A	990	40	118	8.6	6,107.2	6,107.2	6,107.2	6,107.2	0.0
B	2,238	91	120	6.6	6,120.2	6,120.2	6,120.2	6,120.2	0.0
C	3,948	46	95	8.0	6,138.3	6,138.3	6,138.3	6,138.3	0.0
D	4,547	170	159	4.8	6,147.4	6,147.4	6,147.4	6,147.4	0.0
E	5,539	52	97	7.8	6,156.8	6,156.8	6,156.8	6,156.8	0.0
F	7,191	63	104	7.3	6,176.2	6,176.2	6,176.2	6,176.2	0.0
G	7,940	52	98	7.8	6,189.6	6,189.6	6,189.6	6,189.6	0.0
H	8,527	40	67	5.7	6,197.6	6,197.6	6,197.6	6,197.6	0.0
I	9,366	17	42	9.0	6,213.4	6,213.4	6,213.4	6,213.4	0.0
J	10,055	232	278	4.0	6,221.9	6,221.9	6,221.9	6,221.9	0.0
K	10,627	539	469	2.4	6,230.6	6,230.6	6,230.6	6,230.6	0.0
L	11,321	31	79	9.1	6,241.1	6,241.1	6,241.1	6,241.1	0.0
M	11,648	60	99	7.3	6,244.6	6,244.6	6,244.6	6,244.6	0.8
N	12,840	29	85	9.6	6,253.8	6,253.8	6,253.8	6,253.8	0.0
O	13,730	27	83	9.9	6,273.6	6,273.6	6,273.6	6,273.6	0.0
P	14,592	26	68	9.3	6,299.7	6,299.7	6,299.7	6,299.7	0.0
Q	14,670	40	61	6.9	6,304.2	6,304.2	6,304.2	6,304.2	1.0
R	15,050	20	63	10.1	6,307.6	6,307.6	6,307.6	6,307.6	0.5
S	15,460	25	68	9.5	6,310.8	6,310.8	6,310.8	6,310.8	0.6
T	15,750	20	41	7.8	6,319.6	6,319.6	6,319.6	6,319.6	0.0
U	16,670	20	39	8.1	6,346.0	6,346.0	6,346.0	6,346.0	0.0
V									

<sup>1</sup> Feet Above confluence with Sand Creek East Fork

FLOODWAY DATA

MAY 23 2007

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**EL PASO COUNTY, CO**  
 AND INCORPORATED AREAS




Sand Creek Center Tributary

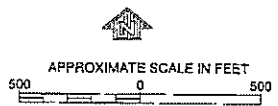
TABLE 5

104°43'07"  
39°50'37"

JOINS PANEL 0752

# EL PASO COUNTY UNINCORPORATED AREAS 080059

- Legend**
-  1% annual chance (100-Year) Floodplain
  -  1% annual chance (100-Year) Floodway
  -  0.2% annual chance (500-Year) Floodplain



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

EL PASO COUNTY,  
COLORADO  
AND INCORPORATED AREAS

PANEL 754 OF 1300  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

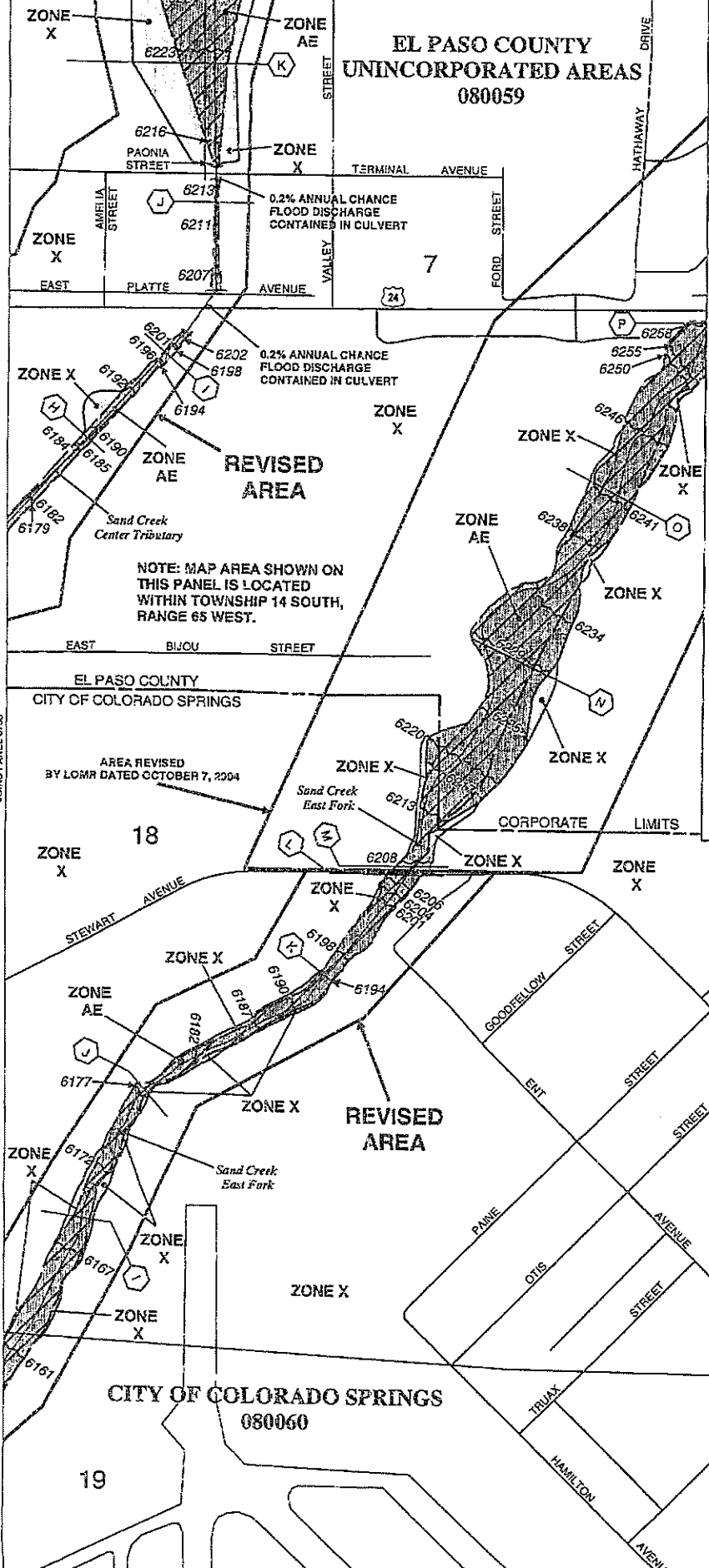
CONTAINS:  
COMMUNITY NUMBER PANEL SHEETS

EL PASO COUNTY, COLORADO  
CITY OF COLORADO SPRINGS, COLORADO

MAP NUMBER  
08041C0754 F

EFFECTIVE DATE:  
MARCH 17, 1997

Federal Emergency Management Agency



JOINS PANEL 0753