53

Federal Emergency Management Agency

Washington, D.C. 20472

MAY 0 5 2004

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Follows Conditional Case No.: 01-06-881R
IN REPLY REFER TO:

Case Number:	**03-06-1927P**
Community Name:	City of Albuquerque, Bernalillo County, New Mexico
Community Number:	350002
Effective Date of this Revision:	AUG 2 5 2004

Dear Mayor Chavez:

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

Additional documents are enclosed that 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 (CCO) for your community. If you have any technical questions regarding this LOMR, please contact the Director, Federal Insurance and Mitigation Division of the Federal Emergency Management Agency (FEMA) in Denton, Texas, at (940) 898-5165, 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 web site at http://www.fema.gov/nfip.

Sincerely,

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness
and Response Directorate

For: Doug Bellomo, P.E., CFM, Acting Chief
Hazard Identification Section
Mitigation Division
Emergency Preparedness
and Response Directorate

List of Enclosures:

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

cc: Carlos A. Montoya, P.E., Floodplain Administrator, City of Albuquerque
Craig W. Hoover, P.E., Bohannan Huston, Inc.
Community Map Repository

Follows Conditional Case No.: 01-06-881R

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 ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO	CHANNELIZATION FILL BERM	HYDROLOGIC ANALYSIS HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 350002		
IDENTIFIER	SOUTH PINO ARROYO	APPROXIMATE LATITUDE & LONGITUDE: 35.158, -106.560 SOURCE: USGS QUADRANGLE DATUM: NAD 27	
FLOODING SOURCE & REVISED REACH	ARROYO DEL PINO – from approximately 1,810 feet downstream of San Pedro Drive Northeast to approximately 700 feet upstream of Wyoming Boulevard		

SUMMARY OF REVISIONS

ctive Flooding:	Zone A	Zone AO	Zone A	Zone AO	Zone AO
ised Flooding:	Zone AE	Zone AE	BFEs*	BFEs*	Zone AO
Increases:	YES	YES	YES	YES	NONE
Decreases:	YES	YES	NONE	NONE	YES

* BFEs - Base Flood Elevations

ANNOTATED MAPPING ENCLOSURES			ANNOTATED STUDY ENCLOSURES
TYPE: FIRM*	NO: 35001C0137 F	Date: November 19, 2003	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 19, 2003 SUMMARY OF DISCHARGES TABLE PROFILE: 83P
TYPE: FIRM	NO: 35001C0141 F	Date: November 19, 2003	

* FIRM - Flood Insurance Rate Map

DETERMINATION

This document provides the determination from the 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) 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 FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site 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 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.

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 modified channel rests with your community. We may request that your community submit a description and schedule of channel activities.

This revision has met our criteria for removing an area from the 1% annual chance floodplain to reflect the placement of fill. — e community must ensure that any structures placed within the subject area be constructed such that they are "reasonably ə from flooding." "Reasonably safe from flooding" means base flood waters will not inundate the land or damage structures to be removed from the SFHA and that any subsurface waters related to the base flood will not damage existing or proposed buildings. The community and engineers should review and use FEMA Technical Bulletin 10-01, Ensuring That Structures Built on Fill In or Near Special Flood Hazard Areas Are Reasonably Safe From Flooding, which may be downloaded directly from the Federal Emergency Management Agency (FEMA) website at http://www.fema.gov/pdf/fima/tb1001.pdf.

COMMUNITY REMINDERS

We based this determination on the 1% 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 law have been obtained. State 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 or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

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 FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION (CONTINUED)

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.

We have enclosed a document, titled *List of Current Flood Insurance Study Data*, which includes this letter, to help your community maintain all information for floodplain management and flood insurance. If any of the items in that document are not filed in your community's map repository, please contact the FEMA Map Assistance Center at the number listed below for information on how to obtain those items.

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:

Mr. Frank Pagano
Director, Federal Insurance and Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, Texas 76209-3698
(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 panels 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 FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

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Kevin C. Long, CFM, Project Engineer
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Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

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 elapses and we resolve any appeals that we receive during this appeal period. Until this LOMR is effective, the revised BFEs presented in this LOMR may be changed.

This information will be published in the *Federal Register* and your local newspaper as detailed below.

LOCAL NEWSPAPER Name: *The Albuquerque Journal*
Dates: 05/19/04 05/26/04

PUBLIC NOTIFICATION				
FLOODING SOURCE	LOCATION OF REFERENCED ELEVATION	BFE (NAVD) EFFECTIVE	BFE (NAVD) REVISED	MAP PANEL NUMBERS
RROYO DEL PINO	Approximately 1,810 feet downstream of San Pedro Drive Northeast	NONE	5,220	350001C0137 F
	Approximately 600 feet upstream of Wyoming Boulevard	NONE	5,405	350001C0141 F

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 FEMA MCC Services, 12101 Indian Creek Court, Beltsville, MD 20705. Additional Information about the NFIP is available on our web site at http://www.fema.gov/nfip.

Kevin C. Long

Kevin C. Long, CFM, Project Engineer
Hazard Identification Section
Mitigation Division
Emergency Preparedness
and Response Directorate

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On November 19, 2003, the Department of Homeland Security's Federal Emergency Management Agency identified Special Flood Hazard Areas in Bernalillo County, New Mexico and Incorporated Areas, including the City of Albuquerque, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Division has determined that modification of the elevations of the flood having a 1% chance of being equaled or exceeded in any given year (base or 100-year flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

Hydrologic and hydraulic analyses were performed to incorporate channelization, placement of fill and the construction of two berms. The project has resulted in a revised delineation of the 1% annual (100-year) chance floodplain, zone redesignation from Zone A and Zone AO to Zone AE and the establishment of BFEs for Arroyo del Pino from approximately 1,810 feet downstream of San Pedro Drive Northeast to approximately 700 feet upstream of Wyoming Boulevard. The aforementioned channelized portion of Arroyo Del Pino contains the 1% annual chance flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 1,810 feet downstream of San Pedro Drive Northeast	None	5,220
Approximately 600 feet upstream of Wyoming Boulevard	None	5,405

*North American Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Division must develop criteria for floodplain management. For the community to participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to

calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Division reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Division's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Martin J. Chavez
Mayor, City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

TABLE 4 – SUMMARY OF DISCHARGES – continued

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Amole Arroyo[1]					
Above dam	4.9	*	*	1,456	*
At dam outfall	4.9	*	*	80	*
At confluence of Sacate Blanco Arroyo	1.54	*	*	609[2]	*
Just east of Diversion Dike	0.96	*	*	477	*
Arroyo de Domingo Baca[3]					
At North Diversion Channel	12.73	*	*	3,620	*
At Interstate Highway 25	7.11	*	*	2,146	*
At Ventura Street	5.84	*	*	1,142	*
Dam outflow	4.43	*	*	761	*
Dam inflow	4.43	*	*	3,845	*
At the confluence with Baca Tributary	3.26	*	*	2,550	*
Arroyo Del Pino					
Just downstream of San Pedro Drive Northeast	8.9	*	*	2,639	*
Just downstream of Wyoming Boulevard	8.7	*	*	2,432	*
At North Diversion Channel	8.59	*	*	2,386	*
At Interstate Highway 25[3]	7.06	*	*	1,604	*
At Ventura Street (Extended)[3]	6.44	*	*	1,250	*
Dam outflow3	4.65	*	*	206	*
Dam inflow	4.65	*	*	4,424	*

[1] Reference 5
[2] By regression analysis
[3] Reference 4
* Data not available

REVISED AREA

REVISED TO REFLECT LOMR DATED AUG 2 5 2004

APPROXIMATE SCALE IN FEET

500 0 500

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0137F

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 137 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0137	F
BERNALILLO COUNTY	350001	0137	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community

MAP NUMBER 35001C0137F

REVISED TO REFLECT LOMR

MAP REVISED: NOVEMBER 19, 2003

EFFECTIVE AUG 25 2004

Federal Emergency Management Agency

APPROXIMATE SCALE IN FEET

500 0 500

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0141F

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 141 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0141	F
BERNALILLO COUNTY	350001	0141	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER 35001C0141F

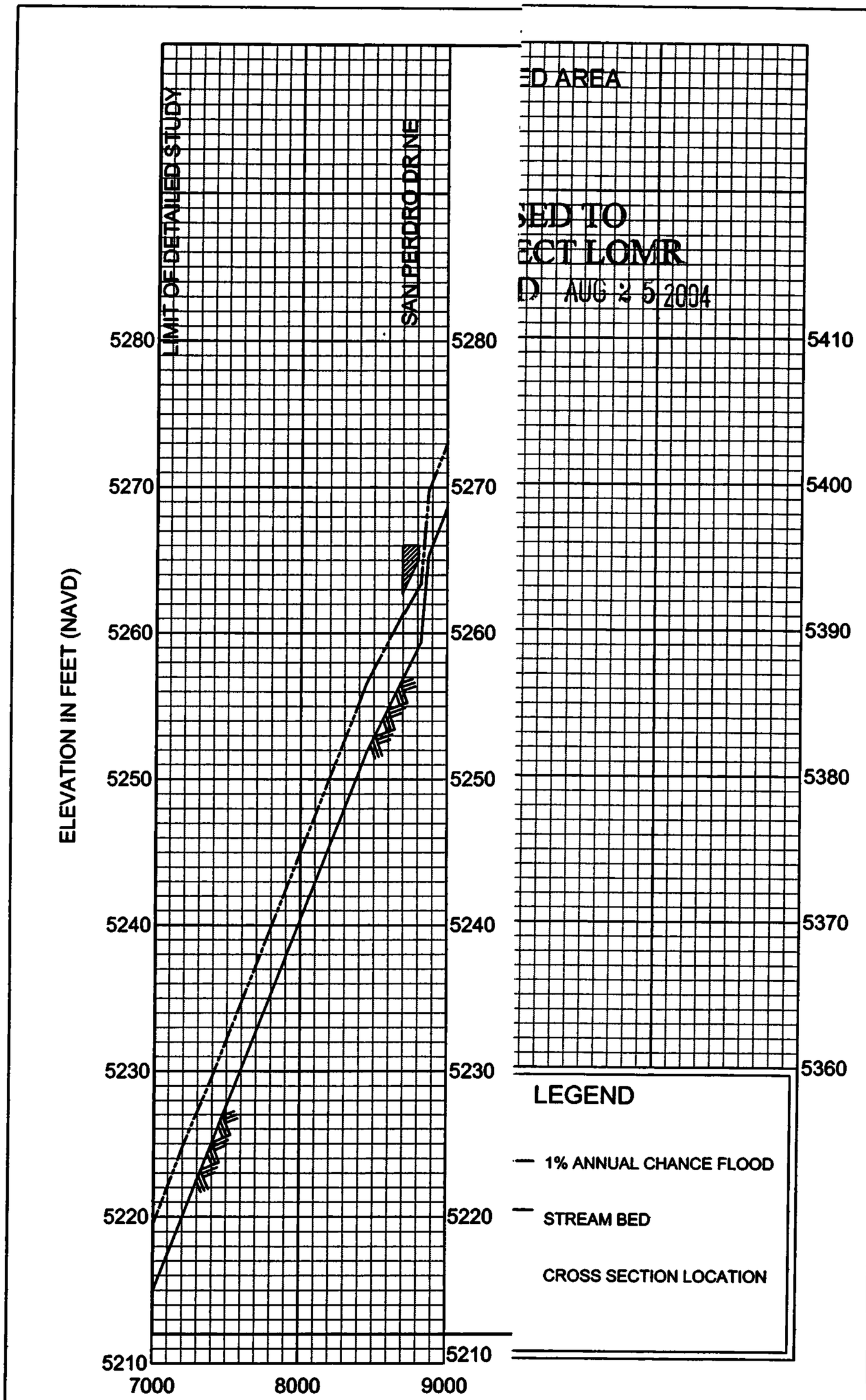
REVISED TO REFLECT LOMR

MAP REVISED: NOVEMBER 19, 2003

EFFECTIVE AUG 25 2004

Federal Emergency Management Agency

ZONE X
KELLY AVE NE
PINO AVE NE
RUTH AVE NE
NED ST NE
LUANA ST NE
LEANNE ST NE
SPENCER RD NE
CARBINE CT NE
HILLS BLVD NE
BROWNING RD NE
SPENCER RD NE
SAVAGE DR NE
STORRIE PL NE
CARDIFF AVE NE
PALOMAS PARK AVE NE
CAPITAN AVE NE
GALLINAS AVE NE
ADELE PL NE
35001C0137E
35001C0141E
SCOTTS PL NE
ZONE AO
(DEPTH 1')
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
LIMIT OF DETAILED STUDY
ZONE X
North Arroyo Del Pino
INA DR NE
ELONA DR NE
RAY ST NE
ZONE X
SAN FRANCISCO RD NE
JACKIE ST NE
HALLMARK AVE NE
GILL ST NE
RAYMOND DR NE
CORONADO AVE NE
PONDEROSA NE
COTTONWOOD NE
ASPEN NE
FIR NE
PINON NE
FRANK PL NE
DEMICA PL NE
JADE PARK AVE NE
GLADYS CT NE
ZONE A
LOMA DEL NORTE RD NE
COULSON DR NE
FRIEDA ST NE
DERICKSON AVE NE
MANZANITA NE
YUCCA NE
FLEETWOOD NE
SAGEBRUSH NE
VIA DE JORGE NE
VIA DE ARTURO NE
VIA DE CRISTOBAL NE
VIA DE JUANITO NE
VIA DE PEPITO NE
VIA DE PATRICIO NE
VIA DE MIGUEL NE
GILL ST NE
WINANS DR NE
PATRICIA DR NE
ZONE X
WILLOW NE
OAK NE
SYCAMORE NE
ALDER NE
CYPRESS NE
CHESTNUT NE
BAYBERRY NE
WALNUT NE
MAPLE NE
CEDAR NE
FERN NE
OLIVE NE
ELM NE
SPRUCE NE
PALM NE
BIRCH NE
JACGRANDE NE
VIA CLARA NE
VIA CECILIA NE
VIA LORETA NE
VIA MARGARITA NE
VIA TERESITA NE
SANTA MONICA AVE NE
SAN PEDRO DR NE
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT
REVISED AREA
City of Albuquerque
350002
LOUISIANA BLVD NE
ZONE X
CINDY DR NE
JOYCE DR NE
MERLE DR NE
LEONA ST NE
ORALEE ST NE
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT
KRISTA DR NE
DERICKSON AVE NE
ZONE X
North Arroyo Del Pino
MALAGA DR NE
WYOMING BLVD NE
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
ZONE X
5270
5276
SAN ANTONIO DR NE
ZONE AO
(DEPTH 3')
5232
5239
5245
5251
5257
5261
Arroyo Del Pino
5295
ZONE AE
5220
5282
5289
5300
5305
5310
5315
5320
5324
5330
5340
5344
5348
5352
5356
5361
5365
5369
5372
5377
5384
5392
5395
5405
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
ZONE AE
5226
FOREST HILLS DR NE
WHITE PINE PL NE
BLACK PINE PL NE
GLENDORA DR NE
VIVIAN DR NE
ZONE X
LUELLA ANNE CT NE
1% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CHANNEL
HARPER RD NE
NATALIE JANAE LN NE
ZONE AE
Arroyo Del Pino
SAN ANTONIO PL NE
VICKREY DR NE
WOODAL ST NE
ZONE AO
(DEPTH 2')
ZONE AO
(DEPTH 1')
MONAHITI PL NE
PINE PARK PL NE
FOREST HILLS CT NE
MCKINNEY DR NE
LESLIE PL NE
BELCHER CT NE
LUELLA ANNE DR NE
TRUCHAS DR NE
BARNHART ST NE
MCKINNEY DR NE
BELCHER AVE NE
JOINS PANEL 0139
JOINS PANEL 0143
FRANTZ DR NE



FLOOD PROFILES

ARROYO DEL PINO

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERNALILLO COUNTY, NM

AND INCORPORATED AREAS

83P

Bohannan Huston Inc.

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

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September 22, 2003

Mr. Joseph A. Martinenza
PBS&J
12101 Indian Creek Court
Belsville, MD 20705

RE: Request for a Letter of Map Revision for the South Pino Arroyo, City of Albuquerque, New Mexico, Community No. 350002, FIRM panel 35001C0137D & 35001C0141D, FEMA CASE No. ~~01-06-881R~~ 03-06-1977P

Dear Mr. Martinenza:

This letter is in response to your letter to Carlos A. Montoya, P.E. Floodplain Administrator for the City of Albuquerque, New Mexico dated July 2, 2003. In that letter you requested more information for two items. In response we offer the following.

1. The shift in the floodplain is entirely contained within the constructed concrete channel that is within property owned by the City of Albuquerque. Consequently, the only property owner that is adversely impacted is the City of Albuquerque and the entity that is requesting the Letter of Map Revision. Enclosed is a copy of a letter to Ms. Serrano from Mr. Montoya documenting this.
2. A certified topographic work map has been prepared delineating the 1% annual chance floodplain for the Arroyo Del Pino including the locations and alignments of the cross sections used in the HEC-RAS model. These section numbers and locations correspond to the channel as-built drawing stationing that was submitted to you with the original CLOMR request in January 2001.

We believe we have addressed all your comments and look forward to receiving approval of the CLOMR.

If you have any additional questions, or require additional information, please contact me at (505) 823-1000.

Sincerely,

Craig W. Hoover, P.E.
Senior Vice President and Group Manager
Water Resources Group

CWH/cc
Enclosures

Cc: Dan Hogan, City of Albuquerque
Carlos Montoya, City of Albuquerque
Lynn Mazur, AMAFCA

P:\00289\hydro\corres\ltr S Pino LOMR 092203.doc

RECEIVED
SEP 24 2003
AMAFCA TECHNOLOGY

00289C2

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 11, 2003

Monica Serrano
PBS&J
12101 Indian Creek Court
Beltsville, Maryland 20705

RE: Request for a Letter of Map Revision for South Pino Arroyo, Case No. 03-06-1927P

City of Albuquerque, New Mexico, Community No. 350002, FIRM Panel 35001C0137 E and 141 E Effective Date April 2, 2002

Dear Ms. Serrano,

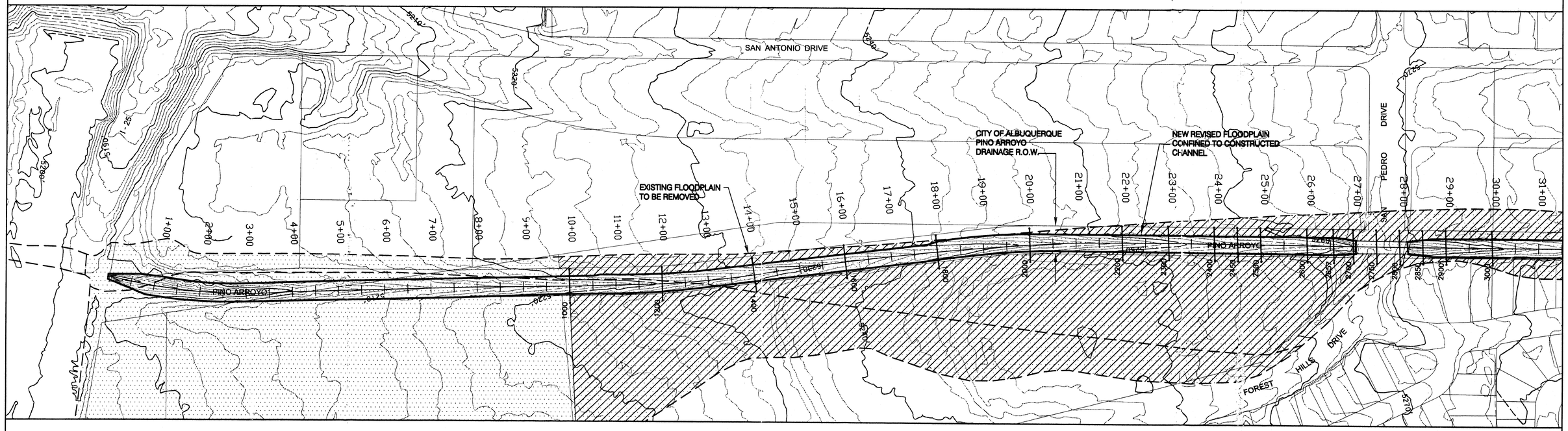
Mr. Craig Hoover has asked me to address item one of your July 2, 2003 comment letter. I have reviewed the LOMR and determined that the floodplain that is shown on the FIRM maps is the original arroyo floodplain. The City and AMAFCA have constructed concrete channels to control this floodplain. The concrete channel is protecting the private property. Therefore, the only adverse impact is to City property, which includes the concrete channel. The City will maintain this channel with its maintenance crews.

If you have any questions, you can contact me at (505) 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Craig Hoover, Bohannan Huston
Lynn Mazur, AMAFCA



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THIS FILE WAS COMPILED TO MEET AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING(ASPRS) CLASS 1 ACCURACY STANDARDS FOR A SCALE OF 1:600 AND CONTOUR INTERVAL OF 1 FOOT. THE ROOT MEAN SQUARE ERROR(RMSE) OF COORDINATES OF WELL-DEFINED FEATURES SHOULD BE EXPECTED TO BE LESS THAN 0.5 FEET. THE RMSE OF ELEVATIONS OF BREAKLINES AND MASS POINTS COMPRISING THE DTM SHOULD BE EXPECTED TO BE LESS THAN 0.33 FEET UNLESS OBSCURED BY CULTURAL FEATURES, VEGETATION, OR SHADOWS. COORDINATE SYSTEM: NEW MEXICO MODIFIED CENTRAL ZONE, NAD27. VERTICAL DATUM: NAGVD29.

BERNALILLO COUNTY TOPOGRAPHIC MAPPING DATE 1999. HORIZONTAL DATUM NAD 83, VERTICAL DATUM NAVD 1988 TIED TO NGS CONTROL EAGLEAIR, MORIAIR2 & PITS.

LEGEND

ZONE A	NO BASE FLOOD ELEVATIONS DETERMINED
ZONE AO	FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY SHEET FLOW ON SLOPING TERRAIN); AVERAGE DEPTHS DETERMINED. FOR AREAS OF ALLUVIAL FAN FLOODING VELOCITIES ALSO DETERMINED.
ZONE X	AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
	EXISTING FLOODPLAIN TO BE REMOVED.
1600	CHANNEL CROSS SECTIONS AND STATION I.D. USED IN HEC-RAS MODELING

N

0 50 100 200

SCALE: 1"=100'

CRAIG W. HOOVER NEW MEXICO 11848 REGISTERED PROFESSIONAL ENGINEER

Craig W. Hoover 9/22/03

PE CERTIFICATION DATE:

Bohannan ▲ Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

SOUTH PINO ARROYO CLOMR

TOPOGRAPHIC WORK MAP FIGURE 1

DRAWN BY: T.M.	DATE: 08-08-03
CHECKED BY: C.W.H.	PROJECT NO. 1000289

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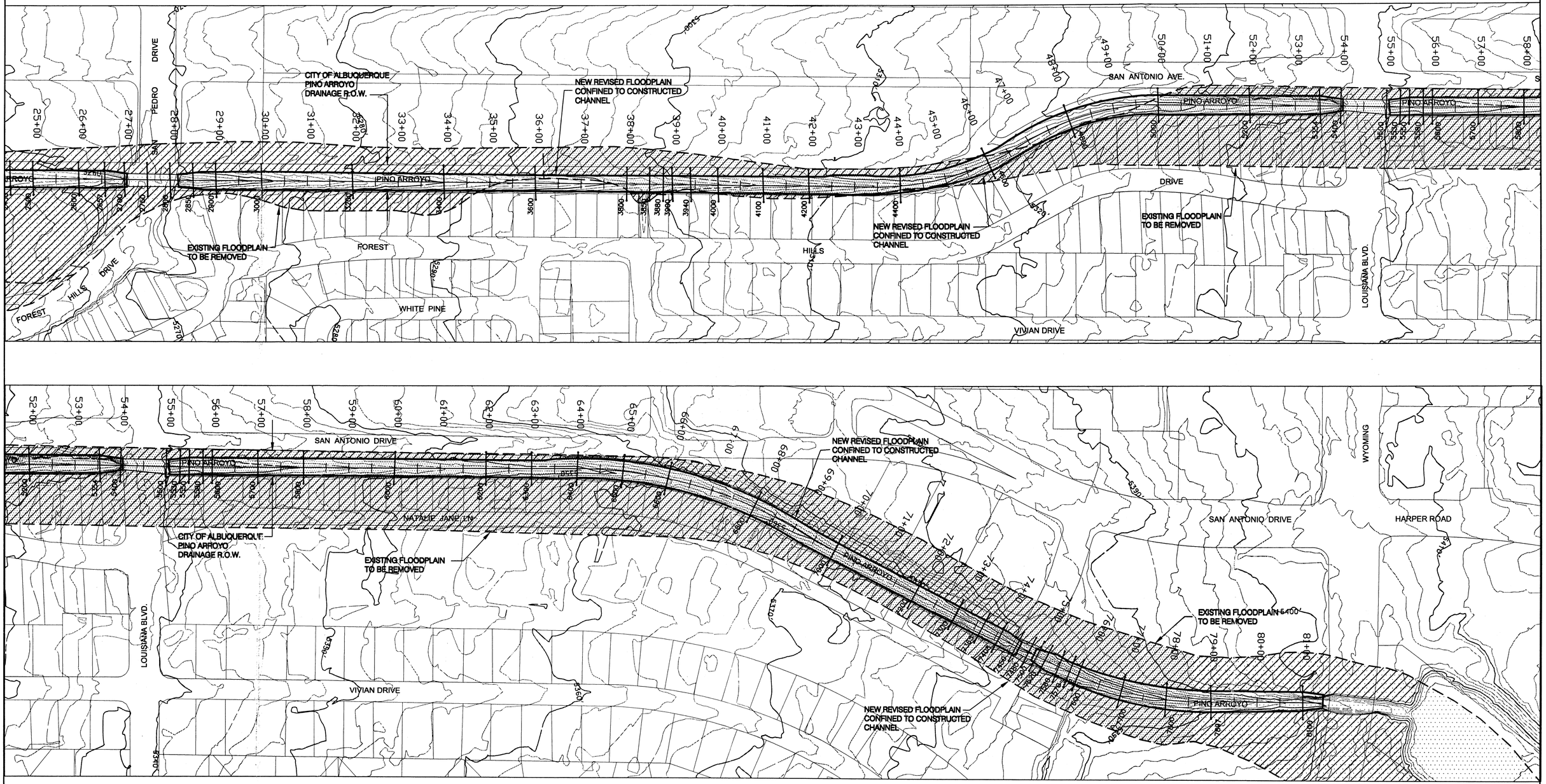
Sep 23, 2003 - 11:08am



THE VECTOR IMAGES IN THIS COMPUTER FILE WERE GENERATED FROM DATA COMPILED BY DIGITAL STEREOPHOTOGRAMMETRIC METHODS USING 1:3,600 NOMINAL SCALE VERTICAL AERIAL PHOTOGRAPHY EXPOSED ON SEPTEMBER 19, 2001 AT A FLIGHT HEIGHT OF APPROXIMATELY 1,800 FEET ABOVE MEAN TERRAIN. THE FILM WAS EXPOSED IN A ZEISS RMKA TOP 15 AERIAL CAMERA,SERIAL NUMBER 145864, CALIBRATED FOCAL LENGTH 152.761 mm.

THE TOPOGRAPHIC IMAGES IN THIS FILE WERE GENERATED FROM DIGITAL TERRAIN MODEL (DTM) DATA ACQUIRED FROM THE AERIAL PHOTOGRAPHY. THE DATA DEPICTED IN THIS FILE IS INTENDED FOR USE AT A SCALE OF 1:600(1"=50') AND A CONTOUR INTERVAL OF 1 FOOT FOR THE PURPOSE OF SITE DESIGN. BOHANNAN HUSTON, INC. ASSUMES NO RESPONSIBILITY FOR THE QUALITY, ACCURACY, OR COMPLETENESS OF THE DATA WHEN USED FOR OTHER THAN THE INTENDED PURPOSE OR WHEN USED AT OTHER THAN THE COMPILED SCALE.

THIS FILE WAS COMPILED TO MEET AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING(ASPRS) CLASS 1 ACCURACY STANDARDS FOR A SCALE OF 1:600 AND CONTOUR INTERVAL OF 1 FOOT. THE ROOT MEAN SQUARE ERROR(RMSE) OF COORDINATES OF WELL-DEFINED FEATURES SHOULD BE EXPECTED TO BE LESS THAN 0.5 FEET. THE RMSE OF ELEVATIONS OF BREAKLINES AND MASS POINTS COMPRISING THE DTM SHOULD BE EXPECTED TO BE LESS THAN 0.33 FEET UNLESS OBSCURED BY CULTURAL FEATURES, VEGETATION, OR SHADOWS. COORDINATE SYSTEM: NEW MEXICO MODIFIED CENTRAL ZONE, NAD27. VERTICAL DATUM: NAGVD29.

BERNALILLO COUNTY TOPOGRAPHIC MAPPING DATE 1999. HORIZONTAL DATUM NAD 83, VERTICAL DATUM NAVD 1988 TIED TO NGS CONTROL EAGLEAIR, MORIAR2 & PITS.

LEGEND

ZONE A	NO BASE FLOOD ELEVATIONS DETERMINED
ZONE AO	FLOOD DEPTHS OF 1 TO 3 FEET (USUALLY SHEET FLOW ON SLOPING TERRAIN); AVERAGE DEPTHS DETERMINED. FOR AREAS OF ALLUVIAL FAN FLOODING VELOCITIES ALSO DETERMINED.
ZONE X	AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
	EXISTING FLOODPLAIN TO BE REMOVED.
3600	CHANNEL CROSS SECTIONS AND STATION I.D. USED IN HEC-RAS MODELING

N

0 50 100 200

SCALE: 1"=100'

CRAIG W. HOOVER
NEW MEXICO
11848
REGISTERED PROFESSIONAL ENGINEER

PE CERTIFICATION — DATE: 9/22/03

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TOPOGRAPHIC WORK MAP FIGURE 1

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Sep 23, 2003 - 11:10am