



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 17, 1981

Mr. Sherwood Richers  
2413 Punta de Vista N.E.  
Albuquerque, New Mexico 87112

Re: 2413 Punta de Vista N.E.  
Cibola Addition; Block 4; Lot 26

H 23 - D4

TO WHOM IT MAY CONCERN:

At the request of Mr. Sherwood Richers, I am supplying the following information concerning the referenced site:

1. The site no longer lies in a flood hazard area.
2. The Piedra Lisa Dam and Channel protect the site from flooding.

If I can be of further help, please call.

Very truly yours,

Charles M. Easlerling  
Principal Asst. City Engineer/Hydrology

CME/fs

### MUNICIPAL DEVELOPMENT DEPARTMENT

Richard S. Heller, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR  
Harry E. Kinney

CHIEF  
ADMINISTRATIVE OFFICER  
Frank A. Klemm

August 19, 1975

Mr. Michael M. Emery  
Bohannon, Westman, Huston & Assoc., Inc.  
4125 Carlisle Blvd. N.E.  
Albuquerque, New Mexico 87107

RE: Drainage Report-Cibola Subdivision Amendment-July, 1975

Dear Mr. Emery:

An agreement between the City and AMAFCA requires a joint written concurrence of the parties when previous or concurrent interbasin transfers, permit or result in the net transfer of runoff from more than 15 acres. The Piedra Lisa diversion results in this and has about 750 cfs in the 100 year storm at the dam site.

This agreement also requires that a storm drainage facility which requires construction must have plans prepared, funds available, and a contract awarded before I can assume they are available. Of course, the governing bodies can waive this requirement. Piedra Lisa Dam is not under contract and funds are not available.

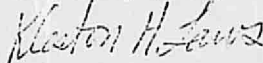
Your amendment is technically sound and does not vary from the techniques and procedures approved in Mr. Robert's letter of January 10, 1975. I understand this approval was based on the City's intent to construct the dam which is now delayed.

Since a joint concurrence is needed and contract and funds not ready for the dam construction, I cannot approve the subject report.

Letter to Michael M. Emery  
Page 2

If you have any questions, please contact me.

Very Truly Yours,



Kleston Laws  
Asst. City Engineer-Hydrology

KL/t1

cc: John Robert

BOHANNAN WESTMAN HUSTON & ASSOCIATES INC.



4135 CARLSLE BLVD. N.E.  
ALBUQUERQUE NEW MEXICO 87107  
PHONE 505 345-2681

ENGINEERS & PHOTOGRAMMETRISTS

July 21, 1975

City of Albuquerque  
P.O. Box 1293  
Albuquerque, New Mexico 87103

Attention: Mr. Kleston Laws,  
Assistant City Engineer, Hydrology

Re: Revised Drainage Report - Cibola Subdivision

Gentlemen:

Enclosed for your review and approval is the revised drainage report on the subject parcel. If you should have any questions concerning the report, please feel free to contact this office. We will be anxious to receive your response.

Sincerely,

*Michael M. Emery*  
Michael M. Emery  
Chief Design Engineer

Enclosure

cc: Mr. Joe Shipley, Dale Bellamah Corporation

MME/sh  
Job Number E74-171

*file copy*

AMENDMENT

DRAINAGE REPORT, CIBOLA SUBDIVISION

JULY 1975

PREPARED FOR:

DALE BELLAMAH CORPORATION  
6400 Uptown Blvd., N.E.  
Albuquerque, New Mexico 87110

*approved on assumption  
of construction of Pedro  
Lara Sam.*

PREPARED BY:

BOHANNAN WESTMAN HUSTON & ASSOCIATES, INC.  
4125 Carlisle Blvd., N.E.  
Albuquerque, New Mexico 87107



*Michael M. Emery*  
MICHAEL M. EMERY  
N.M.P.E. NO. 5194

AMENDMENT  
DRAINAGE REPORT, CIBOLA SUBDIVISION

PURPOSE

The purpose of this report is to define modifications to the drainage plan for Cibola Subdivision which were made necessary by the realignment of Camino de La Sierra along the east boundary of the subdivision. This realignment was generated by a request from the City Planning Department to insure the horizontal transition into the existing right-of-way to the north could be made more easily. The original drainage plan was approved by AMAFCA on January 10, 1975 (see enclosed letter).

CONDITIONS IN ORIGINAL DRAINAGE PLAN

In the original drainage plan and preliminary plat, two cul-de-sacs extended west from the old alignment of Camino de La Sierra into what is now called combined Areas A and B. A drainage right-of-way extended into the Public Service Company easement from each of these cul-de-sacs resulting in two flows that had to be accepted along the east boundary of Block 1 and conveyed to the south.

CONDITIONS IN AMENDED DRAINAGE PLAN

The realignment of Camino de La Sierra did not leave enough depth in Block 3 to allow the retention of the northerly most cul-de-sac which defined Drainage Area A in the original drainage plan. As a result, the new layout of Block 3, as shown on Revised Plate V, was developed. The net result of this action was to combine Drainage Areas A and B with the discharge point remaining at the original location of that from Area B.

The realignment of Camino de La Sierra and replanning of Block 3 resulted in a decreased area and decreased number of developed lots (15 to 12) discharging to the Public Service Company easement. However, the flow used to evaluate the adequacy of Profile #3, Plate V, was considered to be the sum of the flows from the original Drainage Areas A and B. Reference to Plate V indicates that the erosion checks specified in the original report are adequate for the new flow conditions. It is also proposed to extend Profile #2 to the north boundary of the subdivision to intercept flows from the Public Service Company easement and convey them to the south.

JOHN B. ROBERT  
EXECUTIVE ENGINEER

S. H. SWINBURNE, CHAIRMAN  
FRID LUTHY, JR., VICE-CHAIRMAN  
RICHARD H. CLOUDH, SEC.-TREAS.  
WILLIAM V. WEREFORD, DIRECTOR  
FRANCES MCCOY, DIRECTOR



**Albuquerque  
Metropolitan  
Arroyo  
Flood  
Control  
Authority**

2113 GIRARD N.E.  
P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125  
TELEPHONE 263-4519

January 10, 1975

Mr. Michial M. Emery  
Bohannon, Westman, Huston & Associates, Inc.  
4125 Carlisle Blvd. N.E.  
Albuquerque, New Mexico 87107

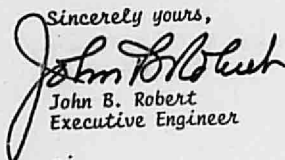
Dear Mr. Emery:

Your revised drainage report for the Cibola Subdivision which you transmitted by letter of January 9, 1975, has been reviewed by this office and approved.

The revised report includes Plates 4 & 5 which relate to erosion control, ditch dikes, and other protective devices and will be incorporated as a part of the approved report.

I would be happy to sign off on the plat at your convenience.

Sincerely yours,

  
John B. Robert  
Executive Engineer

cj





## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR

Harry E. Kinney

CHIEF

ADMINISTRATIVE OFFICER

Frank A. Kleinhenz

September 16, 1975

Mr. Micheal Emery  
Bohannon, Westman, Huston & Assoc. Inc.  
4125 Carlisle Blvd. N.E.  
Albuquerque, New Mexico 87107

RE: DRAINAGE REPORT CIBOLA SUBDIVISION

Dear Mr. Emery:

The concept of the subject report is approved. I will sign the plat at your convenience.

You will need to present a grading plan and detailed construction plans showing the improvements of the drainage study, including those in Amendment #3, before building permits are issued.

Very truly yours,

Kleston H. Laws

Assistant City Engineer-Hydrology

KHL/fs

cc: Mr. John Robert, AMAFCA

BOHANNAN WESTMAN HUSTON & ASSOCIATES INC.



4125 CARLISLE BLVD. N.E.  
ALBUQUERQUE, N.M. 87107  
PHONE 505 881-2000

ENGINEERS & PHOTOGRAMMETRISTS

September 12, 1975

RECEIVED  
SEP 14 1975  
CITY ENGINEERS

City of Albuquerque  
P.O. Box 1293  
Albuquerque, New Mexico 87103

Attention: Mr. Kleston Laws, Assistant City Engineer, Hydrology

RE: Amendment #3 Drainage Report, Cibola Subdivision

Gentlemen:

As a result of our meeting on September 10, 1975, at the Albuquerque Metropolitan Arroyo Flood Control Authority, we are submitting our proposed amendments to the subject drainage report. We propose to accomplish the following:

1. Provide channel improvements and erosion checks in the drainage way on the west side of the Public Service Company easement to its confluence with the Piedra Lisa Channel.
2. Extend the earth section of the Piedra Lisa Channel from its present terminus to the west boundary of the subdivision.

We feel these additional improvements will offer sufficient protection to all lots within the subdivision.

If you should have any questions concerning this matter, please feel free to contact this office. We will be anxious to receive your comments and/or approval so that we may proceed with the plat filing and subdivision design.

Sincerely yours,

*Michial M. Emery*

Michial M. Emery  
Chief Design Engineer

cc: Mr. Joe Shipley  
Dale Bellamah Corporation

MME/ku  
Job No. 74-171

Answers to Comments From Assistant City Engineer, Hydrology (As discussed on July 28, 1976)

1. Wheel chair ramps at the intersections of Camino De La Sierra and Tierra Montanosa, Madre Drive and Tierra Montanosa, and Camino De La Sierra and Myra Place were relocated per our discussions.

The "T" intersections at the following locations were analyzed:

Tierra Montanosa and Punta De Vista

On Tierra Montanosa

$Q = 11.7$  cfs  
 $S = .096$   
 $W = 32'$  ftof  
Crown = 5"  
 $n = .015$   
Depth = .21'  
 $V = 6.83$  ft./sec.  
 $h_v = V^2/2g = .72$  ft.  
 $h_t = D+h_v = .93$  ft.

Going South on Punta De Vista

$Q = 16$  cfs  
 $S = .02$   
 $W = 32'$  ftof  
Crown = 5"  
 $n = .015$   
Depth = .32'  
 $V = 4.1$  ft./sec.  
 $h_v = V^2/2g = .26$  ft.  
 $h_t = D+h_v = .58$  ft.

The above analysis indicates that a wall one foot above top of curb constructed in front of the lots at the property line west of the subject intersection would assure water could not enter the lot.

Madre Drive and Punta De Vista

On Madre Drive

$Q = 6.6$  cfs  
 $S = .0684$   
 $W = 22'$  ftof  
Crown = 5"  
 $n = .015$   
 $D = .18$  ft.  
 $V = 5.2$  ft./sec.  
 $h_v = V^2/2g = .42$  ft.  
 $h_t = D+h_v = .60$  ft.

Going South on Punta De Vista

$Q = 31$  cfs  
 $S = .0064$   
 $W = 40'$  ftof  
Crown = 5"  
 $n = .015$   
 $D = .46$  ft.  
 $V = 3.15$  ft./sec.  
 $h_v = V^2/2g = .15$  ft.  
 $h_t = D+h_v = .61$  ft.

The above analysis shows that water will not reach adequate heights to overtop curb and no wall is required for this reason.

8. Weir Flow Computations Over Structure at Piedra Lisa Arroyo and Punta De Vista

$Q = 800$  cfs (without dam)  
Average Elevation of Weir = 85.0  
Weir Width = 100 ft.

<u>Elev.</u>	<u>Weir</u> <u>Head</u>	<u>Flow</u>	<u>H/W</u>	<u>Structure</u> <u>Flow</u>	<u>Total Flow</u>
86	1	263	7.3'	160	423
86.5	1.5	483	7.8'	170	653
86.75	1.75	608	8.05'	175	783
87	2	743	8.3'	180	923

Weir Formula:

$$Q = CLH^{3/2} = 263 H^{3/2}$$

$$C = 2.63$$

$$L = 100$$

The above computation indicates that at an elevation of 87 feet, the design flow can pass beneath and over the structure. See grading plan, Sheet 10 of 12, for proposals.

August 26, 1975

RECEIVED

AUG 27 1975

CITY ENGINEERS

Chairman of the Technical Standards  
Committee  
Albuquerque Metropolitan Arroyo Flood  
Control Authority  
P.O. Box 25851  
Albuquerque, New Mexico 87125

Re: Appeal of Designee Decision Dated August 19, 1975, Concerning  
Drainage Report and Amendment, Cibola Subdivision

Gentlemen:

Acting as agent for Dale Bellamah Corporation and in accordance with Section 17, Drainage Resolution 1972-2, Albuquerque Metropolitan Arroyo Flood Control Authority, it is requested that the Technical Standards Committee of the Authority hear an appeal of the above referenced decision. Any material which the Committee may desire to review prior to the hearing will be supplied upon request. We will appreciate receipt of the date, time, and place of the hearing when such arrangements have been made.

Included for informational purposes are a copy of the original approval letter for the revised drainage report dated January 10, 1975, and the subsequent designee decision disapproving the report dated August 19, 1975.

Sincerely yours,

*Michael M. Emery*  
Michael M. Emery, P.E.  
Chief Design Engineer

Enclosures

cc: Mr. John Robert, Executive Engineer, AMAFCA  
Mr. Kleston Laws, Assistant City Engineer, Hydrology ✓  
Mr. Larry Stroup, Chief Engineer, Dale Bellamah Corporation

MME/sh  
Job Number E74-171

BOHANNAN WESTMAN HUSTON & ASSOCIATES INC.



125 CARLSLE BLVD. N.E.  
ALBUQUERQUE, NEW MEXICO 87107  
PHONE 505 345-2681

JOHN B. ROBERT  
EXECUTIVE ENGINEER

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**Albuquerque  
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2112 GIRARD N.E.  
P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125  
TELEPHONE 268-4519

January 10, 1975

Mr. Michial M. Emery  
Bohannon, Westman, Huston & Associates, Inc.  
4125 Carlisle Blvd. N.E.  
Albuquerque, New Mexico 87107

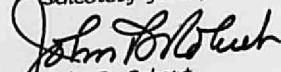
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MAYOR  
Harry E. Kinney

CHIEF  
ADMINISTRATIVE OFFICER  
Frank A. Kleinhenz

August 19, 1975

RECEIVED 18 1975

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Bohannon, Westman, Huston & Assoc., Inc.  
4125 Carlisle Blvd. N.E.  
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Letter to Michael . Emery  
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Asst. City Engineer-Hydrology

KL/t1

cc: John Robert