

March 5, 1998

Bruce Stidworthy  
Bohannon-Huston Inc  
7500 Jefferson NE  
Albuquerque, NM 87109

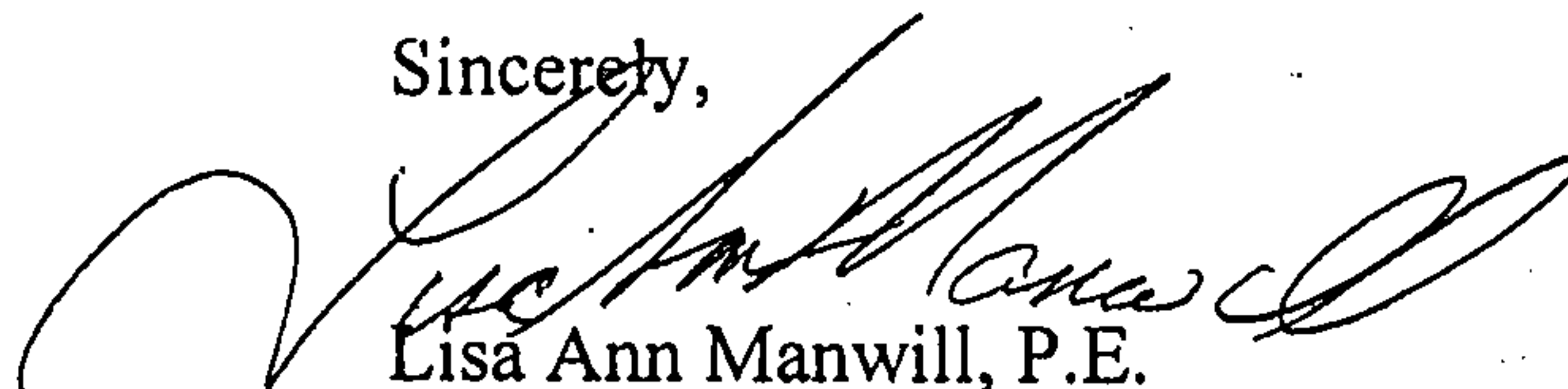
**RE: RANCHO SERENO SUBDIVISION UNIT 5 (C12-D1R). ENGINEER'S  
CERTIFICATION FOR RELEASE OF FINANCIAL GUARANTEES.  
ENGINEER'S CERTIFICATION DATED FEBRUARY 25, 1998**

Dear Mr. Stidworthy:

Based on the information provided on your January 27, 1998 submittal, City Hydrology accepts the Engineer's Certification for grading and drainage (Work Order Number 4569.97)

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,



Lisa Ann Manwill, P.E.  
Hydrology

c: Terri Martin  
Andrew Garcia  
File

Good for You, Albuquerque!





CITY OF  
Albuquerque  
Public Works Department

February 5, 1997

Robert E. Gurulé, Director

Martin J. Chávez, Mayor

Michael Jeffords  
Bohannon-Huston, Inc  
7500 Jefferson NE  
Albuquerque, NM 87109

RE: RANCHO SERENO UNIT 5 (C12-D1R). GRADING PLAN FOR GRADING  
PERMIT APPROVAL. ENGINEER'S STAMP DATED JANUARY 31, 1997.

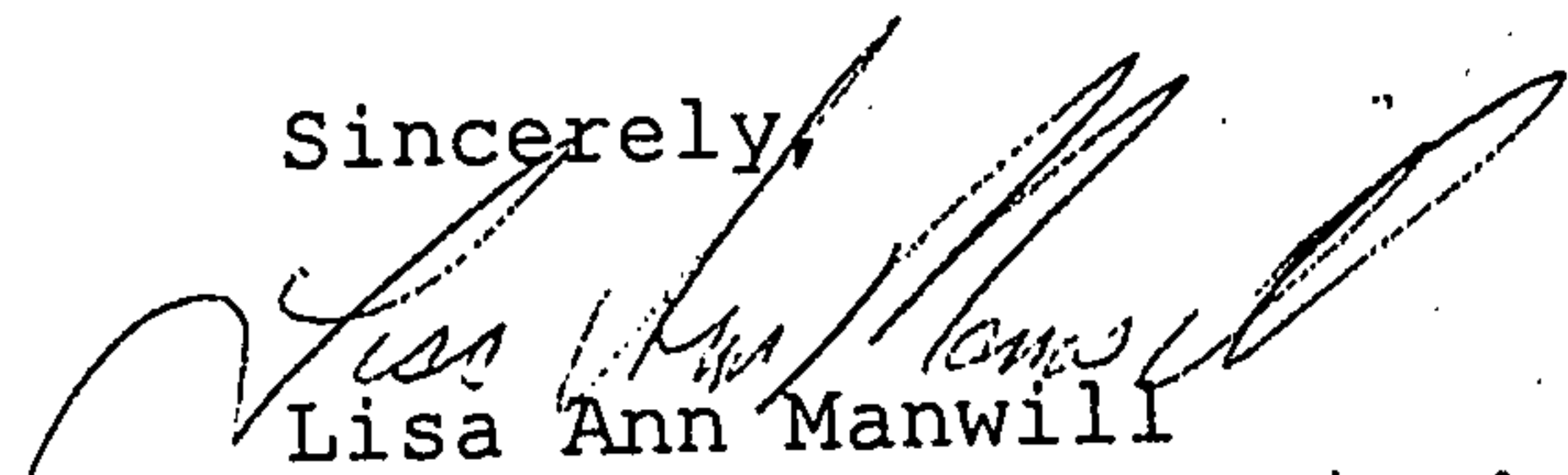
Dear Mr. Jeffords:

Based on the information provided on your January 31, 1997  
submittal, the above referenced plan is approved for grading permit.

An Engineer's Certification of grading and drainage perm the DPM  
checklist must be accepted by City Hydrology prior to release of  
financial guarantees.

If I can be of further assistance, please feel free to contact me at  
924-3984.

Sincerely,

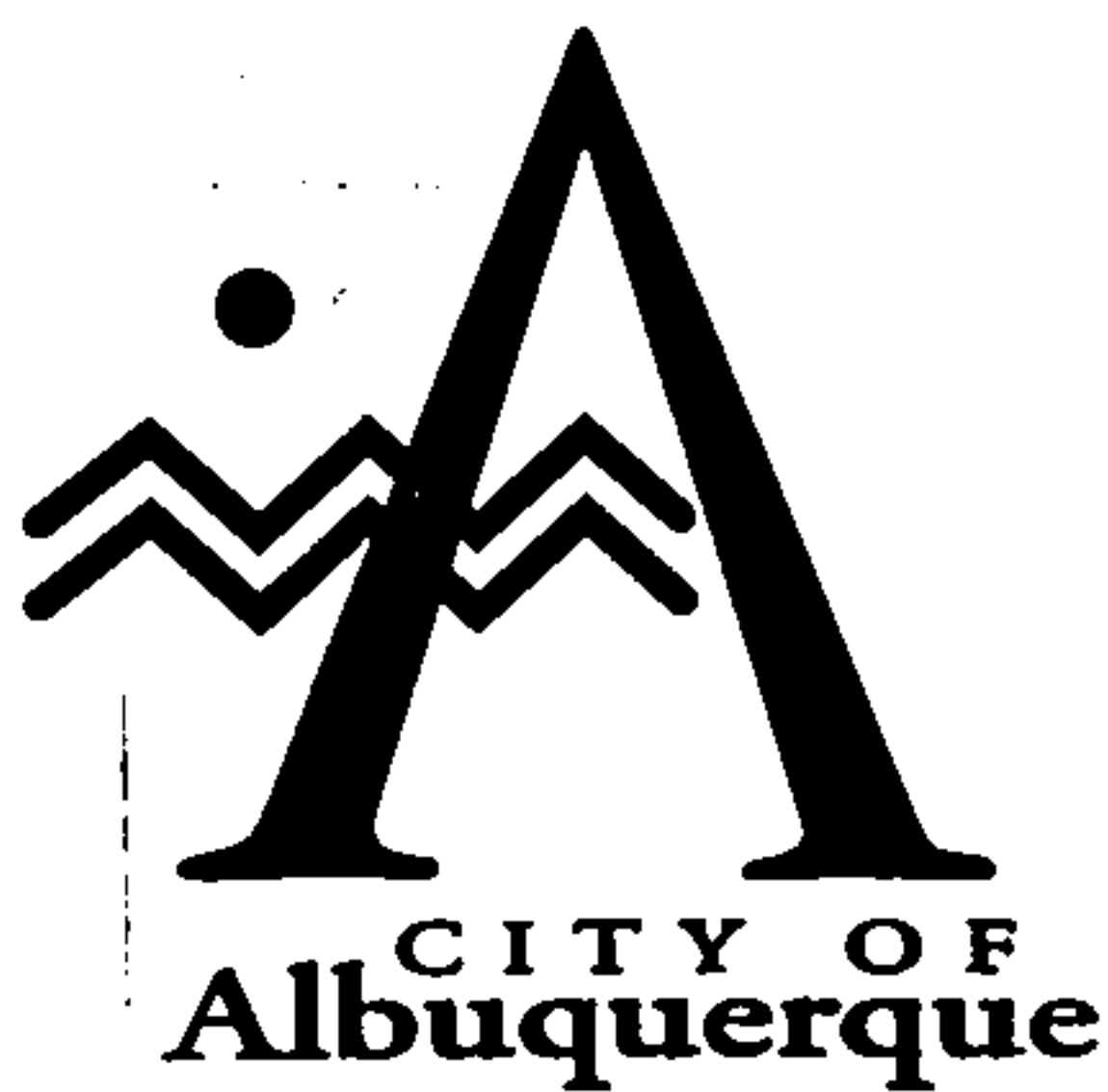
  
Lisa Ann Manwill  
Engineering Assoc./Hyd.

c: Andrew Garcia  
File

Good for You, Albuquerque!

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





P.O. Box 1293, Albuquerque, NM 87103

December 4, 1996

Martin J. Chávez, Mayor

James Topmiller, PE  
Bohannon-Huston Inc.  
7500 Jefferson NE  
Albuquerque, NM 87109

RE: ENGINEER'S CERTIFICATION FOR RANCHO SERENO UNIT 4 (C-12/D1R)  
RECEIVED NOVEMBER 27, 1996 FOR FINANCIAL GUARANTY RELEASE  
ENGINEER'S STAMP DATED 11/26/96

Dear Mr. Topmiller:

Based on the information included in the submittal referenced above, City Hydrology accepts the engineer's certification for financial guaranty.

Contact Terri Martin to obtain the Financial Guaranty Release for City Project Number 4569.96.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Terri Martin, CPN 4569.96

Good for You, Albuquerque!





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 5, 1995

## ***CERTIFICATE OF COMPLETION AND ACCEPTANCE***

Centex Real Estate Corporation  
5111 Juan Tabo N.E.  
Albuquerque, NM 87111

**RE: RANCHO SERENO PHASE III RETAINING WALLS PROJECT NO.  
4569.W3 MAP NO. (C-12)**

Dear Sir:

This is to certify that the City of Albuquerque accepts Project No. 4569.W3 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

- The project consists of construction of retaining walls along Las Terrazas Drive, Golf Course Road and Rancho Sereno Drive as shown on sheets 1, 4, 6, 46 thru 51 of the City approved project plans.

The contractor's correction period begins the date of this letter and will be effective for a period of one (1) year.



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**June 30, 1995**

**Kerry Davis, PE  
Bohannon-Huston Inc.  
7500 Jefferson NE  
Albuquerque, NM 87109**

**RE: ENGINEER'S CERTIFICATION FOR RANCHO SERENO 3 (C-12/D1R)  
RECEIVED JUNE 9, 1995 FOR FINANCIAL GUARANTY RELEASE  
ENGINEER'S STAMP DATED 6-7-95**

**Dear Mr. Davis:**

**Based on the information included in the submittal referenced above, City Hydrology accepts the Engineer's Certification of grading & drainage and releases the Financial Guaranty for City Project Number 4569.95. Contact the DRC Chairman, Billy Goolsby, for the actual Financial Guaranty Release.**

**If I can be of further assistance, You may contact me at 768-2727.**

**Sincerely,**

**John P. Curtin, P.E.  
Civil Engineer/Hydrology**

**c: Andrew Garcia  
Billy Goolsby, CPN 4569.95  
Norm Gregory, Centex, 5111 Juan Tabo NE 87111**





# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**April 7, 1995**

**Kerry Davis, PE  
Bohannon-Huston Inc.  
7500 Jefferson NE  
Albuquerque, NM 87109**

**RE: GRADING PLAN FOR RANCHO SERENO 3B (C-12/D1R)  
RECEIVED MARCH 17, 1995 FOR FINAL PLAT & WORK ORDER  
ENGINEER'S STAMP DATED 6-16-94 REVISED 2/95**

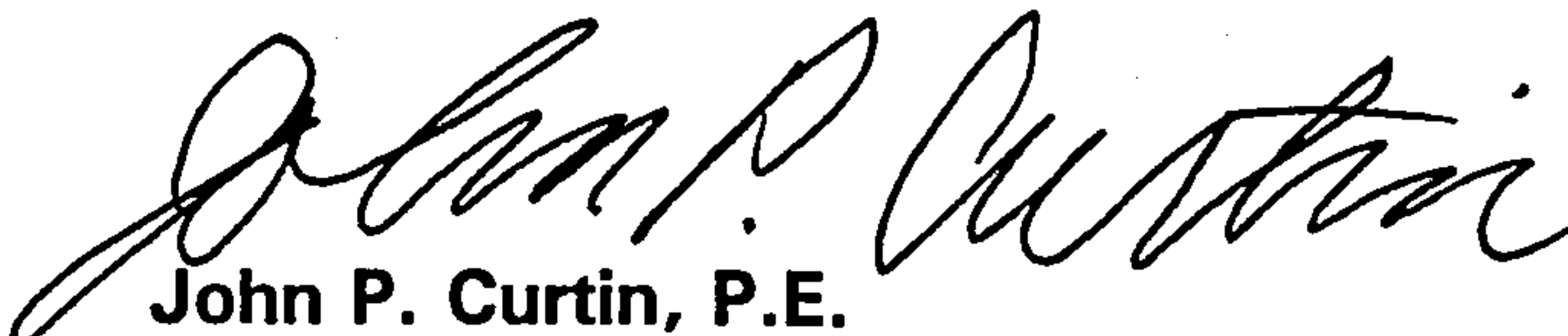
**Dear Mr. Davis:**

**Based on the information included in the submittal referenced above, City Hydrology accepts the Grading Plan for Final Plat & Work Order. This Plan does not have any legal status until it is approved by the DRB.**

**Any revision to City Project Number 4569.95 must be coordinated through the DRC Chairman, Billy Goolsby.**

**If I can be of further assistance, You may contact me at 768-2727.**

**Sincerely,**

  
**John P. Curtin, P.E.  
Civil Engineer/Hydrology**

**c: Andrew Garcia  
Norm Gregory, Centex, 5111 Juan Tabo NE 87111**



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 2, 1994

## ***CERTIFICATE OF COMPLETION AND ACCEPTANCE***

Centex Real Estate Corporation  
5111 Juan Tabo N.E.  
Albuquerque, NM 87111

**RE: PROJECT NO. 4569.83, RANCHO SERENO PHASE II, (MAP NO. C-12  
& D-12)**

Dear Sir:

This is to certify that the City of Albuquerque accepts Project No. 4569.83 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion and acceptance shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

- Placed water, sewer, drainage, and paving improvements for Rancho Largo, Rancho Sereno, Rancho Alegre, Rancho Encanto, Rancho Quieto, Rancho Dorado, and Rancho Bravo Streets.

The contractor's correction period began July 28, 1994, and will be effective for a period of one (1) year.

Sincerely,

*Rick Roybal* for 11-2-94  
Rick Roybal, P.E.  
City Engineer,  
Public Works Department

Sincerely,

*Russell B. Givler*  
Russell B. Givler, P.E.  
Chief Construction Engineer,  
Public Works Department



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 14, 1994

Kerry Davis  
Bohannon-Huston Inc.  
7500 Jefferson St. NE  
Courtyard 1  
Albuquerque, NM 87109

RE: RANCHO SERENO (C12-D1R) ROUGH GRADING SUBMITTAL RECEIVED 3/11/94,  
ENGINEER'S STAMP DATED 3/2/94.

Dear Mr. Davis:

Based on the information provided on the above referenced submittal, the rough grading/erosion control plan is approved per your request. Please provide this office with a copy of the signed off plan.

If you have any questions, please do not hesitate to call me at 768-2668.

Sincerely,

Fred J. Aguirre, P.E.  
PWD/Hydrology Division

FJA/dl/WPHYD/8293

c: Andrew Garcia  
File





# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 17, 1994

Kerry Davis  
Bohannon-Huston Inc.  
7500 Jefferson St. NE, Courtyard 1  
Albuquerque, NM 87109

RE: DRAINAGE REPORT FOR RANCHO SERENO III & IV (C12-D1R)  
RECEIVED JUNE 9, 1994 FOR FINAL PLAT & WORK ORDER APPROVAL  
ENGINEER'S STAMP DATED 6/8/94

Dear Mr. Davis:

Based on the information included in the submittal referenced above, City Hydrology approves this project for Final Plat & Work Order.

Drainage Covenants for the desiltation ponds must be executed & recorded before Billy Goolsby will release the Work Order.

Engineer's Certification of grading & drainage per DPM checklist must be approved before the Financial Guaranty will be released.

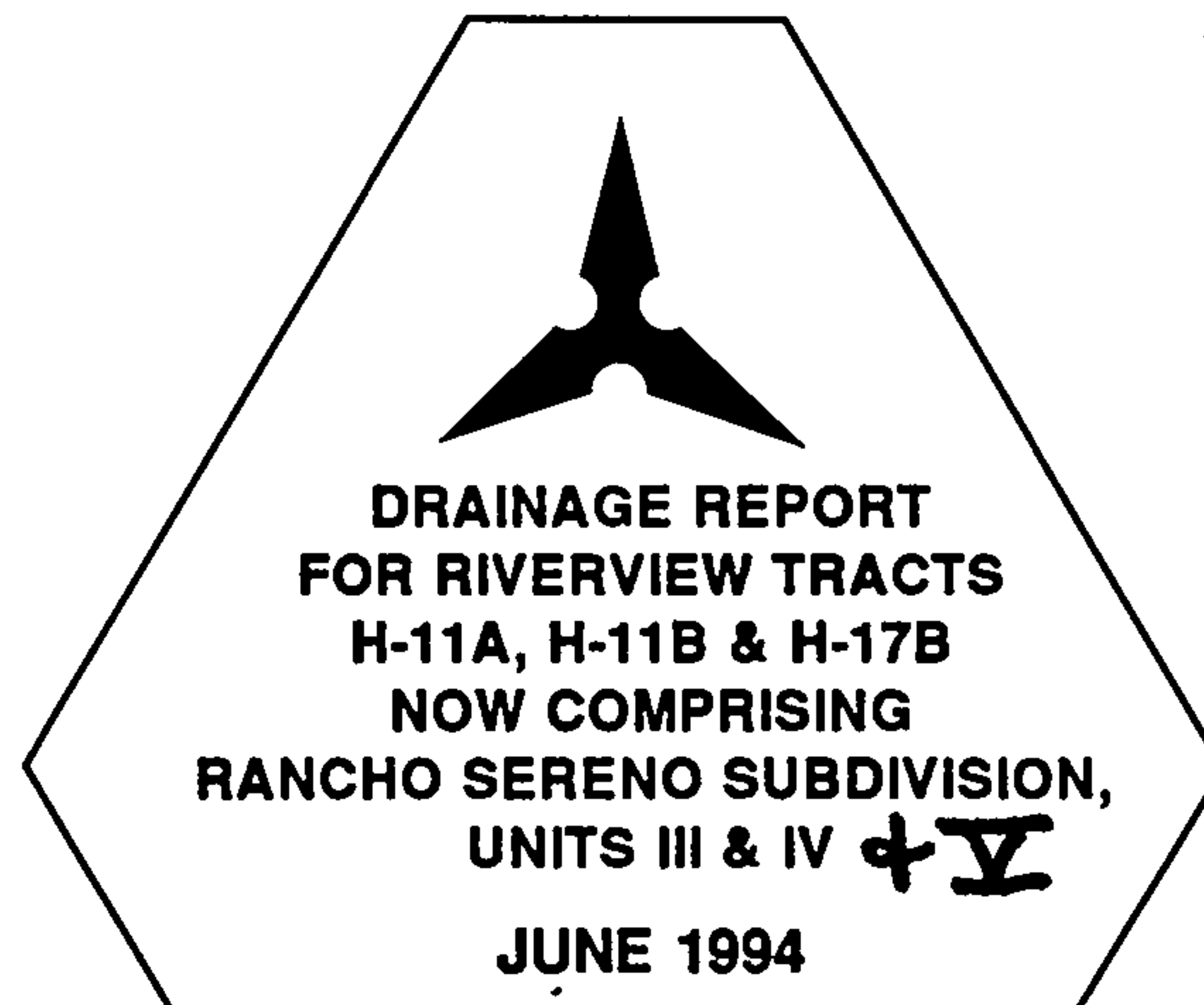
If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Billy Goolsby, DRG  
Fred Aguirre, DRB  
John Kelly, AMAFCA

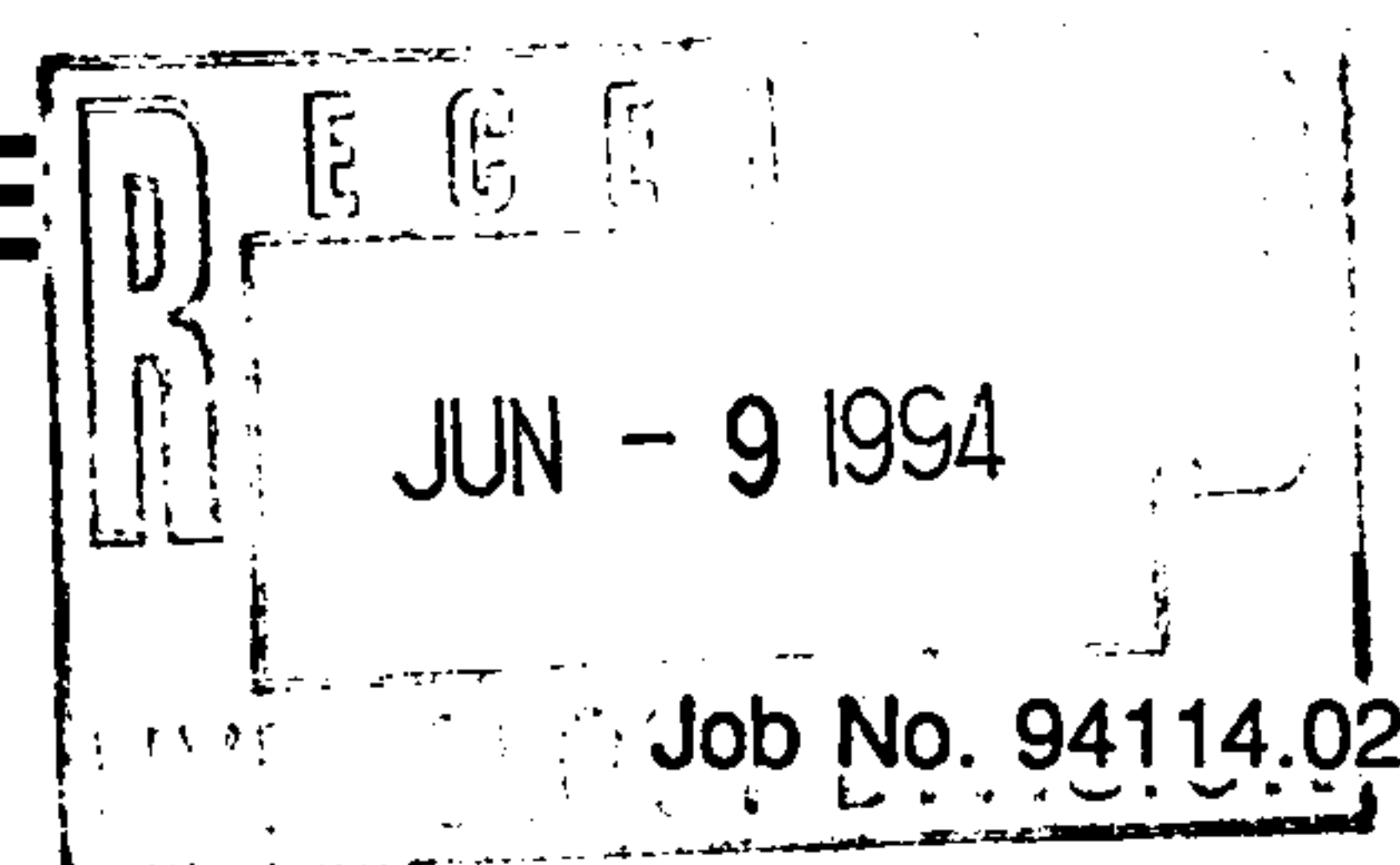
WPHYD/8293/jpc



**DRAINAGE REPORT FOR  
RIVERVIEW TRACTS H-11A, H-11B &  
H-17B - NOW COMPRISING  
RANCHO SERENO SUBDIVISION,  
UNITS III & IV + V**

Prepared for:

**CENTEX HOMES  
5111 JUAN TABO BOULEVARD NE  
ALBUQUERQUE, NM 87111**



Prepared by:



**BOHANNAN-HUSTON INC.**  
ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS

COURTYARD I, 7500 JEFFERSON NE ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

*Changes by  
MSJ@BHI*

*1/2/93  
97*

January 2, 1997

John P. Curtin, P.E.  
City of Albuquerque  
Hydrology Department  
P.O. Box 1293  
Albuquerque, NM 87103

Re: Rancho Sereno Subdivision Unit V (DRB-95-389), Revisions to ***Drainage Report for . . . Rancho Sereno Subdivision, Units III and IV*** (C-12/D1R)

Dear John:

At your request we have updated the ***Drainage Report for . . . Rancho Sereno Subdivision, Units III and IV***. This update is required to facilitate the ease of future reviews. We are requesting work order approval with this update.

The phasing changes that have resulted in Unit IV becoming Units IV and V are now shown within the approved report. We have added the approved CLOMR for the Piedras Marcadas Channel at the end of Appendix I.

We have also added the November 2, 1996 addendum in which the hydraulic grade line and inlet V-depth equations for Storm Drain 'Line B' were calculated. This adds Sheets A3-37a, A3-37b, and A3-38d through A3-38j. Sheet A3-37 has been marked 'VOID 1/2/97'. 'Line B' is located within both Units IV and V.

We have added copies of the most recently approved grading plans. They are dated 11/1/95. We have left the existing copies of the grading plans and added 'VOID 1/2/97'.

We have added or updated these items in COA Hydrology's copy of the approved report. We have left a post-it note on all pages that have been added or updated. Please feel free to remove these after you've reviewed the report.

All changes to this report's content have been previously approved. If you have any questions, please contact me at 823-1000.

Sincerely,



Mike Jeffords, E.I.  
Community Development  
and Planning

cc: Norm Gregory, Centex

M:\96436\A2431\DRN\_REV.doc - 01/02/97

**ADDED**  
**1/2/97**

BOHANNAN-HUSTON INC.



COURTYARD I, 7500 JEFFERSON STREET, NE ALBUQUERQUE, NM 87109-4355  
TEL (505) 823-1000 FAX (505) 821-0892

LARRY W. HUSTON, C.P.  
MICHAEL M. EMERY, P.E.  
BRIAN G. BURNETT, P.E.

KERRY L. DAVIS, P.E.  
LARRY A. LARRAÑAGA, P.E.  
HOWARD C. STONE, P.E.

PRINCIPALS

GEORGE RADNOVICH, R.L.A.  
SILAS V. SUAZO  
JAMES R. TOPMILLER, P.E.

WILLIAM L. VREEKE, P.E.  
GORDON A. WALHOOD, JR., P.E.  
MARY E. CARTER

**DRAINAGE REPORT  
FOR**

**RIVERVIEW TRACTS H-11A, H-11B & H-17B  
NOW COMPRISING  
RANCHO SERENO SUBDIVISION,  
UNITS III & IV & V**

**JUNE 1994**

**PREPARED FOR:**

**CENTEX HOMES  
5111 JUAN TABO BOULEVARD NE  
ALBUQUERQUE, NM 87111**

**PREPARED BY:**

**BOHANNAN-HUSTON, INC.  
7500 JEFFERSON STREET NE  
COURTYARD 1  
ALBUQUERQUE, NM 87109**

**JOB NO. 94114.02**



**I CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER  
IN THE STATE OF NEW MEXICO AND THAT THIS REPORT WAS  
PREPARED BY ME OR UNDER MY SUPERVISION.**

   
KERRY L. DAVIS, P.E. DATE

**NMPE NO. 9984**

**changes by  
MST@BHI**

**1/2/97  
97**



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## I. PURPOSE

The purpose of this report is to present the Drainage Management Plan for preliminary plat and rough grading approval for the development of Rancho Sereno Subdivision Units III & ~~IV~~ **IV + V** which currently is legally described as Riverview Tracts H-11A, H-11B & H-17B. The plan has been prepared in accordance with the requirements of the Development Process Manual (DPM) of the City of Albuquerque, including revisions promulgated in January 1993 (DPM Update). The site is proposed to be developed into a single-family, detached residential subdivision with varying lot sizes.

## II. SITE LOCATION AND EXISTING CONDITIONS

The subject tracts are located southwest of the intersection of Paseo del Norte NW, and Eagle Ranch Road NW, within both the north and middle branches of the Piedras Marcadas watershed. They lie within the Riverview Sector Development Plan Area of the City of Albuquerque on the west mesa and are zoned R-LT. The site is bounded by Paseo del Norte on the north, Quanz Motors and Eagle Ranch Road on the east, the existing right-of-way of the Piedras Marcadas Arroyo and Detention Basin on the south, Golf Course Road on the west, and Las Terrazas Subdivision on the northwest.

Las Terrazas Subdivision to the northwest is a single-family, residential subdivision that is under construction at this time. Quanz Motors, to the northeast, is an existing commercial structure. Paseo del Norte consists of two lanes of arterial paving on the north half of the existing 156' right-of-way. Eagle Ranch Road is identified on the Long Range Major Street Plan as a collector street (86' right-of-way) with an existing 14" waterline located within its right-of-way. Golf Course Road, which lies along the west boundary of the property, is a fully-developed, minor arterial (106' right-of-way) with paving, drainage, and utility improvements.

The site generally slopes down from north to south and discharges into either the Piedras Marcadas Arroyo or the Piedras Marcadas Detention Basin on the south via sheet flow. The Piedras Marcadas Middle Branch Channel is undergoing improvements at this time. The Piedras Marcadas Detention Basin has been increased in size and is undergoing various

improvements in conjunction with the channel construction. The channel passes the site along the south boundary from its existing crossing at Golf Course Road to its outlet at the Piedras Marcadas Detention Basin. The existing arroyo crossing at Golf Course Road consists of a lined concrete channel section with a box culvert top. Rancho Sereno Drive is proposed to cross the Piedras Marcadas Channel via a trapezoidal box structure.

Off-site flows enter the site along the north and west boundaries, as shown on the basin map (Plates 2A and 2B). Developed runoff from Las Terrazas enters the site through Rancho Sereno Drive via both street surface flow and an existing 42" storm sewer. Undeveloped runoff from properties north of Paseo del Norte discharge to a pond on the site through a temporary drainage easement via a temporary 48" RCP storm sewer.

### **III. FLOOD HAZARD ZONES**

As shown by Panel 3500020008, of the National Flood Insurance Program (NFIP) Flood Boundary and Floodway Maps for the City of Albuquerque, dated September 15, 1983, a portion of the subdivision's proposed residential lots lie within a designated Flood Hazard Zone along the middle and north branches of the Piedras Marcadas Arroyo (see Plate 5). A CLOMR is being requested from FEMA to revise this map concurrently with the design and construction of the first phase of the Piedras Marcadas Channel. The first phase of channel construction includes the downstream reach of the channel from Golf Course Road to the Piedras Marcadas Dam which is currently under construction. A separate CLOMR report has been submitted to remove the north branch floodplain and consolidate the north and middle branch floodplains. The revised map will show that the 100-year floodplain is limited to the Piedras Marcadas Middle Branch Channel right-of-way and Golf Course Road right-of-way; thus, none of the subject properties will lie within a 100-year floodplain.

### **IV. PROPOSED DEVELOPMENT AND PHASING**

The proposed development consists of a single-family, detached residential subdivision with an overall density of about 3.8 dwelling units/acre. Proposed lot sizes are a minimum of 105' deep (110' typical), with a typical widths of 50' and 65'. Proposed street configurations

are shown on the preliminary plat (Plate 1), the drainage basin map (Plates 2A-2B), and on the final grading plans (Plates 3A-3F).

The project is proposed to be phased as identified on the preliminary plat (Plate 1), the drainage basin map (Plates 2A-2B), and on the final grading plans (Plates 3A-3F). Rancho Sereno Unit III, the first phase of the project, consists of all portions of the development west of and including Rancho Lindo Court. The paving of one-half of Paseo del Norte, at a nominal width of 25', will be financially guaranteed and constructed with Rancho Sereno Unit III. One-half of Eagle Ranch Road, at a nominal width of 25', will be constructed with Rancho Sereno Unit IV. Eagle Ranch Road will include drainage improvements which consist of a storm sewer with inlets and appurtenances which drain the right-of-way back to the west to the Piedras Marcadas Detention Basin.

Perimeter grades have been based on as-built information for Golf Course Road (COA project No. 3435), Las Terrazas Drive (COA project No. 4725.90), Quanz Motors (COA project No. 9354), and the Piedras Marcadas Detention Basin (COA project No. 4569.93). Perimeter grades have been based on construction plans for Rancho Sereno Drive (COA project No. 4725.91), Paseo Del Norte (COA project No. 2850), and the Piedras Marcadas Channel (COA project No. 4569.94). Eagle Ranch Road is being designed with this project, and the layout follows existing ground  $\pm 1'$ . The proposed grading of all perimeter lots have been coordinated with the previous information.

## **V. HYDROLOGIC AND HYDRAULIC ANALYSIS**

The hydrologic calculations which appear herein analyze the developed discharge for the 100-year, 6-hour rainfall event, as identified within the recent revision to Chapter 22.2 of the Development Process Manual (DPM Update). Peak discharges of runoff have been calculated using the rational method, as presented within the DPM Update (version 1/93).

The hydraulic calculations which appear herein were computed as follows: street and channel capacities were computed using Manning's equation with Manning's N values as identified within the latest edition of the DPM. The capacities of streets were computed with



the maximum water elevation at top of curb and maximum energy to be contained within the right-of-way. Inlet capacities in sump conditions were made using the orifice equation and the weir equation. Inlet capacities on grade were determined in accordance with DPM charts and procedures. Storm drain capacities and hydraulic grade line calculations are included in the report. Detention ponds have been sized to hold 10-year flows plus sediment storage. Emergency spillways have been sized to pass the 100-year storm. All calculations have been made in accordance with DPM procedures.

A detailed analysis of the Piedras Marcadas Channel has been completed and submitted separately. This analysis will form the basis for a CLOMR which will be submitted to FEMA.

**(APPROVED CLOMR ATTACHED. SEE SHEET A1-5)**

## VI. DRAINAGE MANAGEMENT PLAN

Under developed conditions, the site will be graded to deliver runoff from developed lots, either directly to the internal street sections or through side and back yard swales, to proposed channel sections. Internal streets will generally convey developed runoff to the south where, at specific locations, it will be intercepted by the proposed storm sewer systems. Developed runoff from the project will be discharged into the Piedras Marcadas Channel and Detention Basin via the proposed storm sewer systems.

Developed runoff generated by Las Terrazas Subdivision, Riverview Tract H-10, enters the site through Rancho Sereno Drive via street surface flow and an existing 42" storm sewer. This existing facility has been extended to the Piedras Marcadas Channel east of its intersection with Rancho Sereno Drive as a part of the channel construction (COA project No. 4569.94). The storm drain facilities were designed in order to convey developed flows from the western portion of Rancho Sereno Unit III without having an adverse effect upstream on Las Terrazas.

*Richland Hills Unit 1*

Developed runoff generated by portions of Riverview Tracts H-3, H-4, and H-5 will enter the site via a 42" storm drain. This storm drain is the financial responsibility of the owners of Riverview Tracts H-3, H-4, and H-5 from Paseo Del Norte through Rancho Sereno

Drive and Rancho Lido Court, as identified in the Centex/Sivage Thomas agreement (see Appendix I). At the intersection with Rancho Centro, the storm drain becomes the joint financial responsibility of both owners. The construction of this storm drain will be accomplished during development of Unit III, including its outfall to the Piedras Marcadas Detention Basin.

4V

Developed runoff generated within Rancho Sereno Unit IV, east of Rancho Lucido, will be directed to a storm sewer, portions of which will be constructed during the development of Unit III. The storm sewer will also collect flows generated by Quanz Motors and Eagle Ranch Road. The storm sewer will extend from the Piedras Marcadas Detention Basin (and emergency spillway) through Rancho Centro and Rancho Paraiso, across the Rancho Milagro/Vistoso intersection, and north into Rancho Gusto. It will pick up all flows mentioned above with the exception of flows generated northeast and southeast of the intersection of Rancho Milagro and Rancho Vistoso which will be picked up by a branch of the main storm drain located within Eagle Ranch Road and extending into the southern cul-de-sac of Rancho Pleno.

4V

Rancho Sereno III and IV will be graded as a single earthwork contract. During the time when Unit IV will be graded but no construction is taking place, erosion control will be handled by the following measures: 1) erosion control berms will be provided to protect individual lots; 2) temporary desiltation ponds will be used where excess runoff can be conveyed to existing facilities; 3) hay bales and erosion control berms will be used to control flows in graded street sections; and 4) perimeter walls and snow fencing will be used to control dust blowing from the site. Details for installation of these measures shall be included in the grading plan and Unit III construction plans.

The drainage and grading plan shows: 1) existing grades indicated by spot elevations and contours at 1'0" intervals; 2) proposed grades indicated by spot elevations and slopes; 3) the limit and character of existing improvements; 4) the limit and character of proposed improvements; and 5) continuity between existing and proposed grades. As shown by this plan, the proposed improvements consist of a 320 lot, detached residential subdivision complete with paving, drainage, and utility improvements.



## VII. CONCLUSIONS

Based upon the findings of this analysis, the proposed improvements are adequate to convey runoff generated by the design storm through the site and into the Piedras Marcadas Arroyo and Detention Basin without damage to private property, in addition to providing protection from flooding that could occur as a result of sediment or erosional deposition upstream of the site. Grading of the site, as shown on Plates 2A-3F, is anticipated to allow implementation of the drainage management plan identified in this analysis.

A design analysis report prepared separately for the Piedras Marcadas Channel provides additional detailed design data for construction of those facilities and for submittal to FEMA for the purposes of obtaining a CLOMR. An existing CLOMR request for the North Branch has been submitted to FEMA and is currently being processed.

~~APP~~ (APPROVED CLOMR ATTACHED.)  
SEE PAGE A1-5

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 October 14, 1983, the Federal Emergency Management Agency (FEMA) identified Special Flood Hazard Areas (SFHAs) in the City of Albuquerque, New Mexico, through issuance of a Flood Insurance Rate Map (FIRM).

The Mitigation Directorate has determined that modification of the elevations of the flood having a 1-percent chance of occurrence in any given year (base flood) for certain locations in the City of Albuquerque is appropriate. The modified base flood elevations (BFEs) revise the FEMA 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.

A hydraulic analysis was performed to incorporate the construction of the Piedras Marcadas Dam along the Middle Branch of the Piedras Marcadas Arroyo, a concrete channel along the Middle Branch of the Piedras Marcadas Arroyo from the dam to Golf Course Road, and existing conditions along the North Branch of the Piedras Marcadas Arroyo from its confluence with the Middle Branch of the Piedras Marcadas Arroyo to approximately 1,500 feet upstream. This has resulted in increases and decreases in SFHA and increases in the BFEs along the Middle Branch of the Piedras Marcadas Arroyo from the dam to Golf Course Road, and increases in the SFHA along the North Branch of the Piedras Marcadas Arroyo from its confluence with the Middle Branch of the Piedras Marcadas Arroyo to approximately 1,500 feet upstream. The table below indicates the modified BFEs for several locations along the affected length

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of the Middle Branch of the Piedras Marcadas Arroyo and the North Branch of the Piedras Marcadas Arroyo.

| Location   | Existing BFE<br>(feet) | Modified BFE<br>(feet) |
|--|------------------------|------------------------|
| Middle Branch of the Piedras Marcadas Arroyo   |                        |                        |
| Just upstream of Piedras Marcadas Dam  | 3#                     | 5,029*                 |
| Approximately 1,300 feet upstream of<br>Piedras Marcadas Dam   | 3#                     | 5,029*                 |
| Just downstream of Golf Course Road  | 3#                     | 2#                     |
| North Branch of the Piedras Marcadas Arroyo  |                        |                        |
| Approximately 100 feet upstream of confluence with<br>Middle Branch of the Piedras Marcadas Arroyo   | None                   | 2#                     |
| Approximately 1,500 feet upstream of confluence with<br>Middle Branch of the Piedras Marcadas Arroyo | 3#                     | 2#                     |

\*National Geodetic Vertical Datum, rounded to nearest whole foot

#Depth rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Directorate 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 Directorate 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 Directorate's determination to modify the BFEs may itself be changed.

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

The Honorable Martin Chavez  
Mayor, City of Albuquerque  
P.O. Box 1293  
Albuquerque, New Mexico 87103

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