Public Works/Hydrology

A10/D1

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A10/D1

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FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

May 5, 1987

Joe Jones
Denney-Tibljas-McLean & Associates, Inc.
2400 Comanche Road, NE
Albuquerque, New Mexico 87107

RE: GRADING & DRAINAGE PLAN REVISION OF SANGRE DE CRISTO RECEIVED MAY 1, 1987 FOR PRELIMINARY AND FINAL PLAT APPROVAL (A-10/D1)

Dear Joe:

The above referenced submittal dated April 30, 1987, is approved for Preliminary Plat purposes.

The Final Plat can be signed by the City Engineer, unless the DRB requires infrastructures with financial guarantees, in which case an executed Subdivision Improvements Agreement would be required prior to sign-off.

If you have any questions, call me at 768-2650.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

RAG/bsj

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RECEIVED
JAN 18 1988
HYDROLOGY SECTION

January 14, 1988

CIVIL AND SOILS ENGINEERING
LAND SURVEYS AND DEVELOPMENTS
TIERRA ENGINEERING CONSULTANTS, INC.
632 PASEO DE PERALTA
SANTA FE, NEW MEXICO 87501
505/982-2845
105 6th Street S.W. Suite 202
Albuquerque, New Mexico 87102
(505) 242-2270

Roger Green, P.E.
Civil Engineer/Hydrology
Public Works Department
City of Albuquerque
Post Office Box 1293
Albuquerque, New Mexico 87103

Re: COMMENTS OF DECEMBER 29, 1987 LETTER REGARDING DRAINAGE PLAN FOR PAPADISE HEIGHTS MASTER DRAINAGE PLAN.

Dear Roger:

I have reviewed your comments on the above referenced submittal and have revised the text and plates accordingly. The following is a summation of your comments and where in the text they are addressed:

1) Text pages 5 and 6 have been revised to delete the second mention of off-site Basin 1 and lists Basins W2 and offsite 5.

2) Basin F1 will drain within the street into and through Basin F2 to the Calabacillas Arroyo. Page 5 of the text was revised to reflect this.

   Appendix B contains the calculations for the accumulation flow into the Calabacillas.

   Table 2 was revised to include the accumulative flow and the comment section for Basin F1 revised.

   Appendix C Street Flow Analysis Calculation - now include calculations for interior street of Basins F1 and F2.
   Table 3 includes the flow depth and velocities from the calculations for the interior streets of Basins F1 and F2.
   Plate 3 revised to include Accumulative Flow.
   Plate 4 revised flow arrows within Basin F1 have been deleted to show that it is not draining into the storm drain system. Additional flow arrows have been added to reflect which basins drain into the storm drain system.

3) Table 4 of text now refers to Appendix D for the exit velocity and computer output information.

4) The 10 year frequency was used to size the detention ponds.

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5) The temporary detention ponds were sized using the storage volume for Detention Basins program contained in the Technical Release 55, "Urban Hydrology for small watersheds" (TR-55). The computer output information of these Basins i contained in Appendix D along with the revised exit velocities.

6) Appendix E has been revised and doesn't include Basin F1 as contributing to the storm drain due to the revisions as discussed in Item 2.

I am sending AMAFCA a copy of this report for their review and comment. Please call me should you need information or have any questions. Thank you.

Sincerely,

Dorothy Chavez-Dolan 1-18-88

Dorothy Chavez-Dolan

cc: Marshall Cross, Bellamah Community Development
Dan Sabo, AMAFCA
File No. 87-105-030
File No. 87-105-060

DCD/bt

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FILE COPY

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR KEN SCHULTZ
CHIEF ADMINISTRATIVE OFFICER GENE ROMO
DEPUTY CAO PUBLIC SERVICES FRANK MARTINEZ
DEPUTY CAO PLANNING DEVELOPMENT BILL MUELLER

December 29, 1987

Dorothy Chavez-Dolan
Tierra Engineering Consultants
105 6th Street S.W.
Suite 202
Albuquerque, N.M. 87102

RE: DRAINAGE PLAN FOR PARADISE HEIGHTS RECEIVED NOVEMBER 24, 1987
FOR MASTER DRAINAGE PLAN APPROVAL

Dear Dorothy:

I have reviewed the above referenced submittal dated October 1987 and have the following comments to be addressed:

1) Page 6 of text - The second paragraph lists off-site Basin 1 for the second time. Basins not listed are off-site Basin 5 and Basin W2.

2) Table 2 of text - Basin F1 is shown as being diverted by storm drain to the arroyo. I believe this would not be possible given the existing topography of the site. I believe Plate 3 is correct in showing that Basin F1 will need to drain into the street at the southeast corner of basin. Plate 4 is inconsistent with Plate 3 in regards to showing flow direction of Basin F1.

3) Table 4 of text should reference Appendix D for the exit velocity and show what frequency the runoff volumes shown are for.

4) Appendix D of text - On Basin F1, I believe you have used the Q100 to size the detention pond. The 10 year frequency can be used for erosion control purposes.

5) Appendix D of text - On all the basins needing detention ponds for erosion control, was the methodology used for determining the routed exit velocity from an accepted reference or textbook? I suggest that a method of pond routing similar to TR55 be used. Also, does the volume scaled from within the hydrograph compare closely with using a composite runoff curve number and direct runoff value for the basins?

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6) Appendix E - I believe that Basin F1 should not be included as contributing to the storm drain. (See note 2 above.)

I concur with the drainage scheme proposed by this Drainage Plan. Please send a copy to AMAFCA for their review and comments. If you have any questions, call me at 768-2650.

Sincerely,

Roger A. Green, PE

Roger Green, P.E.
Civil Engineer/Hydrology
Public Works Department

RG:ld

Arch. WP+ (ID 326)

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DRAINAGE INFORMATION SHEET

A-10/D2

PROJECT TITLE: Drainage Plan Paradise Heights ZONE ATLAS/DRNG. FILE #: A-10 & A-11

LEGAL DESCRIPTION: Tract A, Units Three, Four, Five & Six

CITY ADDRESS: North of Calabacillas Arroyo, West of proposed Unser Blvd

ENGINEERING FIRM: Tierra Engineering Consultants CONTACT: Dorothy Chavez-Dolan

ADDRESS: 105 6th Street S.W. Suite 202 PHONE: 242-2280

OWNER: Bellamah Community Development CONTACT: Marshall Cross

ADDRESS: P.O. Box 3300, Albuq, NM 87190 PHONE: 884-6606

ARCHITECT: N/A CONTACT: N/A

ADDRESS: PHONE:

SURVEYOR: N/A CONTACT: N/A

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT: N/A

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED
NOV 2 - 1987
HYDROLOGY SECTION

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

X CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

X OTHER Master Plan (SPECIFY)

DATE SUBMITTED: November 24, 1987

BY: Dorothy Chavez-Dolan

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: A-11 DATE: 9-24-87

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Pond [illegible] - 6 [illegible]

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: _____

APPROVAL REQUESTED:

_____ PRELIMINARY PLAT	_____ FINAL PLAT
_____ SITE DEVELOPMENT PLAN	_____ BUILDING PERMIT
X OTHER Master plan	_____ ROUGH GRADING

Concept

ATTENDANCE:	WHO	REPRESENTING
	Dan Tate Dolan	_____
	Carlos A Montoya	_____
	_____	_____

FINDINGS:

(1) Need to show dam, berm, drainage, drainage, [illegible] major elevations, normal events, normal pools, [illegible]

(2) Need to coordinate with AMAFCA for delineation of floodplain and Prudent line

(3) The drainage plan needs to show floodplain & Prudent Line

(4) Need to check EPC comments against [illegible] for changes

(5) Need to coordinate with AMAFCA on outfall into Calabacillas

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carlos A Montoya	SIGNED: [illegible]
TITLE: _____	TITLE: _____
DATE: 9-24-87	DATE: 9-24-87

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

0000 0000 0115

dtm & associates, inc
Denney-Tibljas-McLean & Associates, Inc.
Consulting Engineers ■ Planners ■ Surveyors

May 1, 1987

RECEIVED
MAY 01 1987
HYDROLOGY SECTION

HAND DELIVERED

Mr. Roger Green
City of Albuquerque
Hydrology Department
One Civic Plaza NW
Albuquerque, NM 87102

Re: Sangre De Cristo
A-10/D1
DTM Job No. 933.12

Dear Roger:

Enclosed for approval is one copy of the Drainage and Grading Plan for subject project.

The comments received from your April 28th, 1987, letter have been addressed as follows:

1. Further research has indicated that this is a 12' drainage right-of-way. We have added an additional 10' drainage easement to either side of this right-of-way from the pipe outlet to the north property line. This pipe discharges onto an existing volcanic escarpment. The escarpment acts as a natural riprap, therefore, no additional treatment is proposed. We have revised our gradng plan such that it does not contribute to this system.

2. Drainage Basin No. 1 has been eliminated.

3. Drainage Basin No. 1 has been eliminated and ponds have been added.

4. According to Mr. Bob Fosnaugh, there are no immediate plans to widen Irving Boulevard. A typical plan view lot layout has been added and clarifies lot drainage patterns.

5. The 1 to 1 slope is the existing escarpment and will remain undisturbed. The limits of construction have been added to clarify this.

2400 COMANCHE ROAD, NE ■ ALBUQUERQUE, NM 87107
TELEPHONE (505) 884-0696

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We have added additional detail to the grading plan for Final Plat approval.

This should take care of all of the comments for this project. If you have any further questions or comments, please feel free to call.

Sincerely,

Joe Jones

JAJ/am
Enclosure

0000 0000 0114

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Sangre De Cristo ZONE ATLAS/DRNG. FILE #: A-10/D1

LEGAL DESCRIPTION: Sangre De Cristo Development

CITY ADDRESS:

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Joe Jones

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: ED LEASE CONTACT: ED LEASE

ADDRESS: BOX 107 COCHITI LAKE, NM 87041 PHONE:

ARCHITECT: N/A CONTACT: N/A

ADDRESS: PHONE:

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: STEVE YOUTSEY

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED
MAY 01 1987
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES
NO
COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB No. 87-128
EPC No.
PROJ. No.

TYPE OF SUBMITTAL:

DRAINAGE REPORT
X DRAINAGE PLAN
CONCEPTUAL GRADING & DRAINAGE PLAN
GRADING PLAN
EROSION CONTROL PLAN
ENGINEER'S CERTIFICATION

DATE SUBMITTED: 5/1/87

BY: Joe Jones

REV. 10/85

CHECK TYPE OF APPROVAL SOUGHT:

SECTOR PLAN APPROVAL
SKETCH PLAT APPROVAL
PRELIMINARY PLAT APPROVAL
SITE DEVELOPMENT PLAN APPROVAL
X FINAL PLAT APPROVAL
BUILDING PERMIT APPROVAL
FOUNDATION PERMIT APPROVAL
CERTIFICATE OF OCCUPANCY APPROVAL
ROUGH GRADING PERMIT APPROVAL
GRADING/PAVING PERMIT APPROVAL
OTHER (SPECIFY)

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FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

April 28, 1987

Joe Jones
Denney-Tibljas-McLean & Associates, Inc.
2400 Comanche Road, NE
Albuquerque, New Mexico 87107

RE: GRADING & DRAINAGE PLAN OF SANGRE DE CRISTO RECEIVED APRIL 1, 1987 FOR PRELIMINARY PLAT APPROVAL (A-10/D1)

Dear Joe:

I have reviewed the above referenced submittal, dated April 1, 1987, and have the following comments to be addressed prior to Preliminary Plat approval:

1. If the lots on each side of the existing 12' drainage easement are to be developed, then permanent treatment is required within the easement to protect adjacent lots. Also, an easement is required to the AMAFCA prudent line with treatment if your development contributes runoff to this system.

2. Provide Hydrology calculations for drainage basin 1 and show the drainage boundary for portions draining to the front and rear of lots.

3. Why aren't ponds shown for the rear yards of lots in drainage basin 1 since all of the developed runoff cannot drain to the street?

4. What is the status of Irving being widened to its full section? How will drainage into the street Right-of-Way be conveyed to the paved street section?

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5. The backyard pond details show a slope of 1 to 1 from pond dike to the rear property line. City criteria is 3 to 1 slopes unless some slope protection is provided.

A more detailed final grading plan will be required prior to Final Plat sign-off showing things such as grading limits and required drive pad locations across the undeveloped Right-of-Way.

If you have any questions, call me at 768-2650.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

RAG/bsj

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: Sangre de Cristo ZONE ATLAS/DRNG. FILE #: A-10 /D1

LEGAL DESCRIPTION: Sangre de Cristo Development

CITY ADDRESS:

ENGINEERING FIRM: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Joe Jones

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

OWNER: Ed Lease CONTACT: Ed Lease

ADDRESS: Box 107, Cochiti Lake, NM 87041 PHONE:

ARCHITECT: N/A CONTACT: N/A

ADDRESS: PHONE:

SURVEYOR: DENNEY-TIBLJAS-McLEAN & ASSOC, INC. CONTACT: Steven L. Youtsey

ADDRESS: 2400 Comanche NE, Albuquerque, NM 87107 PHONE: 884-0696

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

_X_ YES
____ NO
_X_ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB No.
EPC No.
PROJ. No.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
_X_ DRAINAGE PLAN
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SECTOR PLAN APPROVAL
____ SKETCH PLAT APPROVAL
_X_ PRELIMINARY PLAT APPROVAL
____ SITE DEVELOPMENT PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ BUILDING PERMIT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY APPROVAL
____ ROUGH GRADING PERMIT APPROVAL
____ GRADING/PAVING PERMIT APPROVAL
____ OTHER (SPECIFY)

DATE SUBMITTED: April 1, 1987

BY: Joe Jones
JOE JONES
REV. 10/85

RECEIVED
APR 01 1987
HYDROLOGY SECTION

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dtm & associates, inc
Denney-Tibljas-McLean & Associates, Inc.
Consulting Engineers ■ Planners ■ Surveyors
2400 Comanche Road, NE
Albuquerque, NM 87107 884-0696

MEMORANDUM

Date April 1, 19 87

To Mr. Carlos Montoya

HAND DELIVERED

From Joe Jones

APR 01 1987
HYDROLOGY SECT

Subject: Sangre de Cristo
DTM Job No. 933.12

Enclosed for approval is one copy of the proposed Drainage and Grading Plan for subject project.

If you have any questions concerning this project, please feel free to call.

JJ/klb
Enclosure

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REPRODUCTION DUE TO THE POOR QUALITY
OF THE ORIGINAL DOCUMENT

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: A-10 DATE: 1/26/87 @ 10:00

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: _____

STREET ADDRESS (IF KNOWN): _____

SUBDIVISION NAME: Replat of Tierra's Lot 1-5; A-K; 7-14

APPROVAL REQUESTED:

X PRELIMINARY PLAT	____ FINAL PLAT
____ SITE DEVELOPMENT PLAN	____ BUILDING PERMIT
____ OTHER	____ ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Joe Lm	PTH + Assoc
	Carol Medya	Hydrology Section

FINDINGS:

1. Drainage Report for DPM
2. Conceptual Grading & Drainage Plan
3. Need to submit with Preliminary Plat
4. Need to show tie-in to Unit 1 & 2 with ADAPT
5. Lot 1 appears to be part of Unit 1 drainage system
6. Flow from Lot 1 appears to be accounted for in Unit 1 drainage system

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: _____	SIGNED: _____
TITLE: _____	TITLE: _____
DATE: 1-26-87	DATE: 1/26/87

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

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PLANS/PLATS ON FILE

FILE DESC: A10/D1

PLANS/PLATS 1

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