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600 SECOND ST. N.W.

ATTENTION: \_\_\_\_\_  
505-924-3900

Records Withdrawal Form

Project No. G11-D61

Date: 3-21-2005

Project Title: COORS / REDLINES

a. File

b. Mylars

c. Redlines/Comments

d. Other \_\_\_\_\_

Requested by: VIRGIL GIL Phone No.: 249-6143  
Name and Company

Comments:

COPIES

Anticipated Return Date: ASAP

I hereby accept full responsibility for the security of the above noted records/plans until return receipt acknowledgement is completed. Records/plans will be returned to the Development and Building Services Center on or before the indicted anticipated return date.

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Organization: Mesa Rev-

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

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Print

Date: 6/17/05

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JAN 06 2003

2.55/CM FLOWS

**HYDROLOGY SECTION**

				FLOW TIME			I (in/hr)	C	Q (cfs)	PIPE			
				Inlet at T <sub>0</sub>	Pipe	Tail				Slope	Size (in.)	Vel (ft/sec)	Length (ft)
3B	-	B-1, B-2 B-3	32.3			28.12	2.74	.63	55.9				
	3B to 4B				.16				55.9	0.70	36	7.89	75
4B		B-1, B-2 B-3 + B-4	51.1			28.28	2.74	0.65	96.4	96 86 182			
4B		Basis A + B	98.6			27.33*	2.78	0.66	181.9				
	4B to 1D				2.97				180.9	0.18	72	6.40	1140
1D		Basis A + B	98.6			30.30	2.64	0.66	171.8				
1C		C-1	13.5	17.6		17.6	3.49	.65	30.6				
	1C to 4C				2.21				30.6	0.56	30	6.25	830
4C		C-1	13.5			19.81	3.28	.65	28.8				

ANDREWS, ASBURY & ROBERT, INC.  
CONSULTING ENGINEERS  
401 San Pedro, NE., Albuquerque, N.M. 87108  
Telephone (505) 265-6631

Project: SAO-198 Sheet: 4 of 15  
Job No: 201  
Date: 9/85  
By: [Signature] Chkd: —



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 3, 2003

Ron Bohannon, PE  
Tierra West LLC  
8509 Jefferson NE  
Albuquerque, NM 87113

**Re: Coors/Redlands Subdivision Drainage Report**  
**Engineer Stamp date 12-24-02 (G11/D61)**

Dear Mr. Bohannon,

Based on information provided in your submittals dated 12-24-02 and 1-06-03, the above referenced report is approved for Site Development Plan for Subdivision action by the DRB. It also provides a rough masterplan for the development of these properties.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE  
Sr. Engineer, Planning Dept.  
Development and Building Services

C: file



## DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/11/2002)

20036R

G-11/D61

PROJECT TITLE: Coors/RedlandsZONE MAP/DRG. FILE #: G-11DRB: 1000651EPC #: 02 EPC - 00312SDP

WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: Tract A 29 A Town of Atrisco Grant Northeast Unit  
CITY ADDRESS: Coors Boulevard and Pheasant Avenue NWENGINEERING FIRM: Tierra West, LLC  
ADDRESS: 8509 Jefferson NE  
CITY, STATE: Albuquerque, NMCONTACT: Ronald R. Bohannon, PE  
PHONE: (505) 858-3100  
ZIP CODE: 87113OWNER: Ken Johns  
ADDRESS: 1311 Tijeras Avenue NW  
CITY, STATE: Albuquerque, NMCONTACT: Ken Johns  
PHONE: (505) 224-9000  
ZIP CODE: 87102ARCHITECT: Lee Gamelsky Architect, P.C.  
ADDRESS: 2412 Miles Road SE  
CITY, STATE: Albuquerque, NMCONTACT: Lee Gamelsky  
PHONE: (505) 842-8865  
ZIP CODE: 87106SURVEYOR: Precision Surveys  
ADDRESS: 8414-D Jefferson NE  
CITY, STATE: Albuquerque, NMCONTACT: Larry Medrano  
PHONE: 856-5700  
ZIP CODE: 87113CONTRACTOR: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY, STATE: \_\_\_\_\_CONTACT: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
ZIP CODE: \_\_\_\_\_

## CHECK TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT  
☐ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☒ GRADING PLAN  
☐ EI  
☐ EI  
☐ CL  
☐ TF  
☐ EN  
☐ EN  
☐ OT

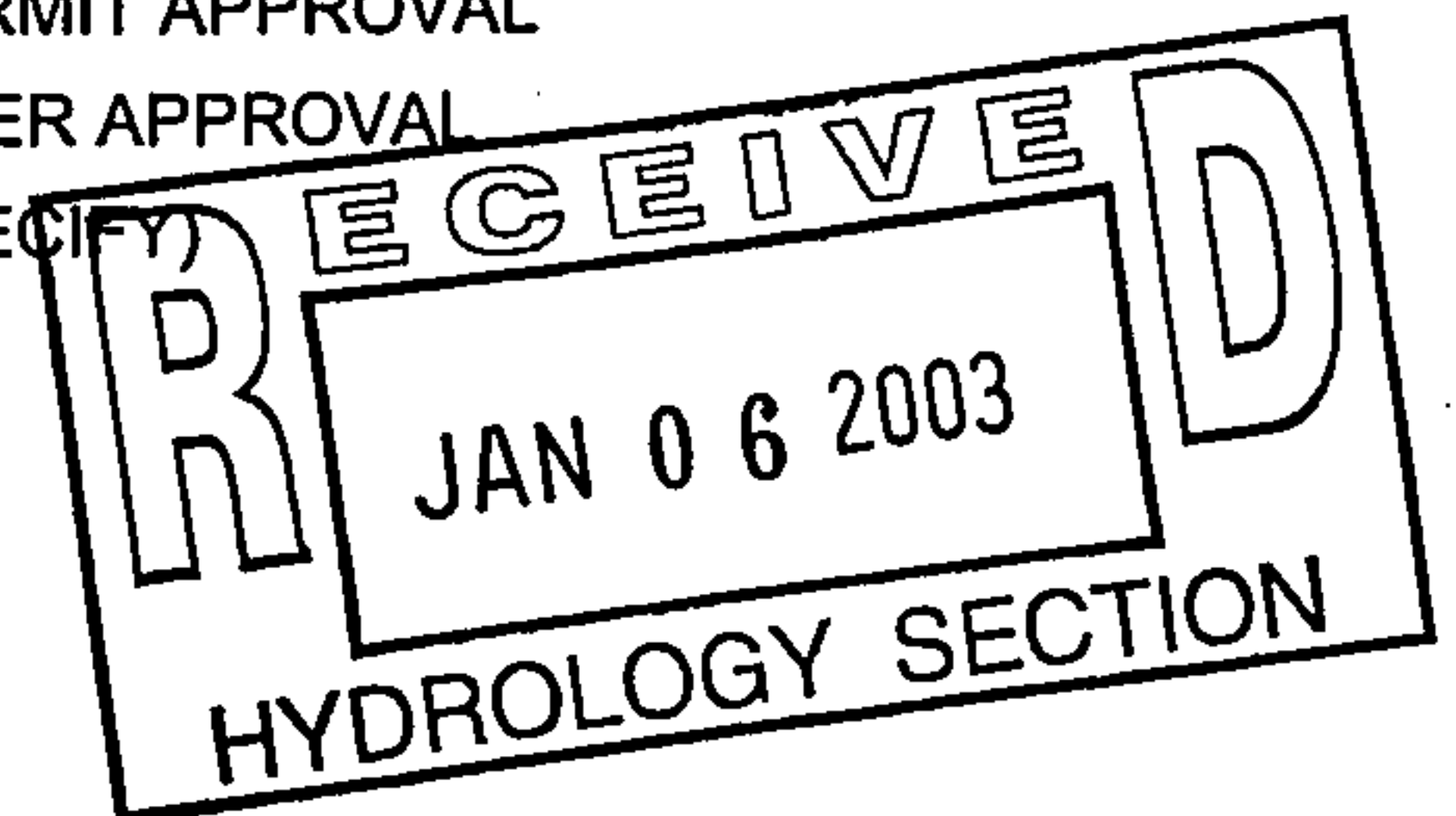
ALSO SEE  
12/24/02  
SUBMITTAL

## WAS A PRE

- ☐ YES  
☒ NO  
☐ COI

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANACIAL GUARANTEE RELEASE  
☐ PRELIMINARY PLAT APPROVAL  
☒ S. DEV. PLAN FOR SUB'D. APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL  
☐ SECTOR PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY (PERM.)  
☐ CERTIFICATE OF OCCUPANCY (TEMP.)  
☒ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☐ WORK ORDER APPROVAL  
☐ OTHER (SPECIFY) \_\_\_\_\_

DATE SUBMITTED: 12/24/2002 BY: Ronald Bohannon, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plans:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

# DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/11/2002)

G-11/D61

PROJECT TITLE: Coors/Redlands

ZONE MAP/DRG. FILE #: G-11

DRB: 1000651 EPC #: 02 EPC - 00312SDP

WORK ORDER #:

LEGAL DESCRIPTION: Tract A 29 A Town of Atrisco Grant Northeast Unit  
CITY ADDRESS: Coors Boulevard and Pheasant Avenue NW

ENGINEERING FIRM: Tierra West, LLC  
ADDRESS: 8509 Jefferson NE  
CITY, STATE: Albuquerque, NM

CONTACT: Ronald R. Bohannon, PE  
PHONE: (505) 858-3100  
ZIP CODE: 87113

OWNER: Ken Johns  
ADDRESS: 1311 Tijeras Avenue NW  
CITY, STATE: Albuquerque, NM

CONTACT: Ken Johns  
PHONE: (505) 224-9000  
ZIP CODE: 87102

ARCHITECT: Lee Gamelsky Architect, P.C.  
ADDRESS: 2412 Miles Road SE  
CITY, STATE: Albuquerque, NM

CONTACT: Lee Gamelsky  
PHONE: (505) 842-8865  
ZIP CODE: 87106

SURVEYOR: Precision Surveys  
ADDRESS: 8414-D Jefferson NE  
CITY, STATE: Albuquerque, NM

CONTACT: Larry Medrano  
PHONE: 856-5700  
ZIP CODE: 87113

CONTRACTOR:  
ADDRESS:  
CITY, STATE:

CONTACT:  
PHONE:  
ZIP CODE:

## CHECK TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANACIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☒ S. DEV. PLAN FOR SUB'D. APPROVAL
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- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

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X

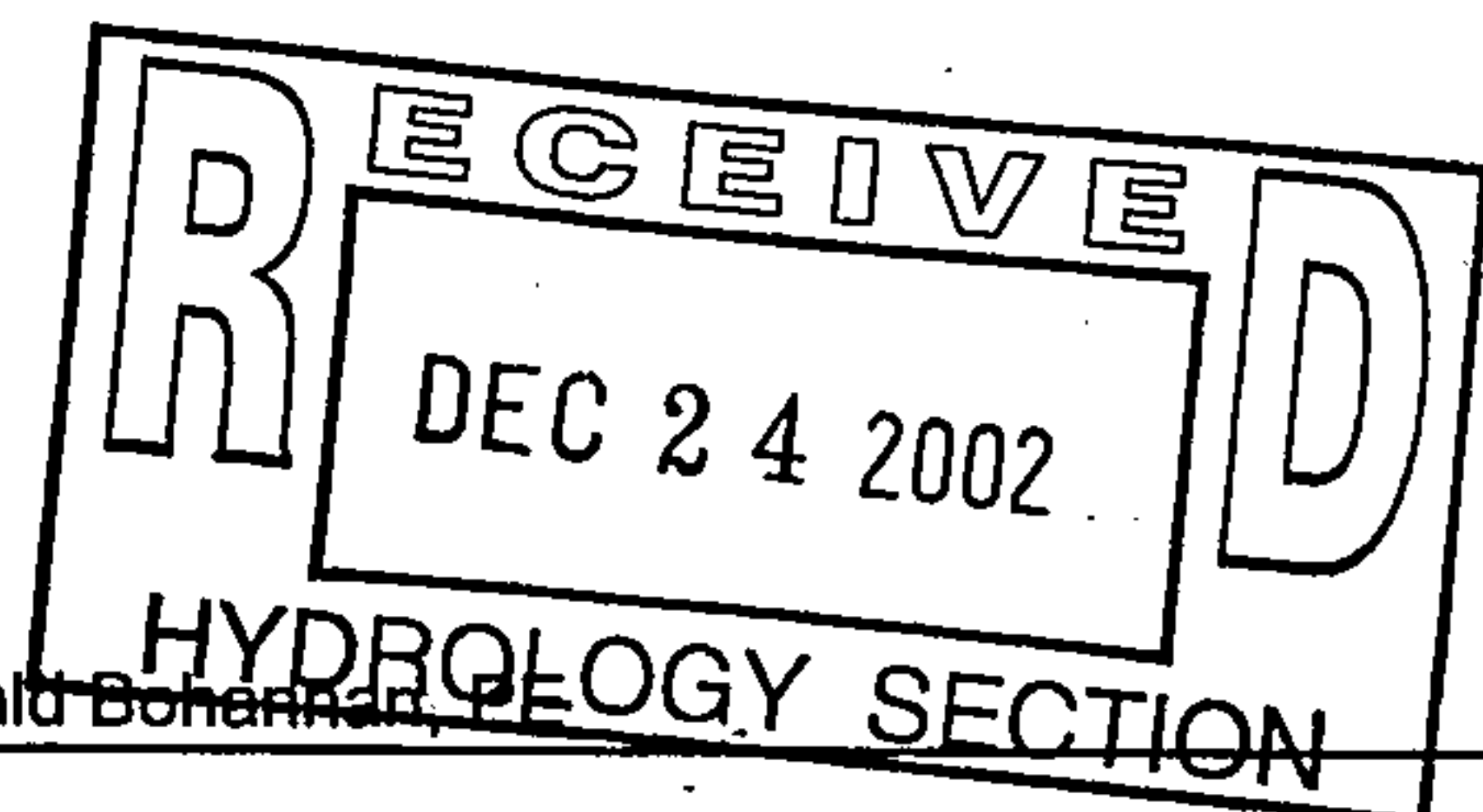
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ALSO SEE  
1/7/03  
SUBMITTAL

BY:

Ronald Bohannon, PE



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3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

**DRAINAGE REPORT  
FOR**

***Tract A 29 A  
Town of Atrisco Grant***

***Coors/Redlands***

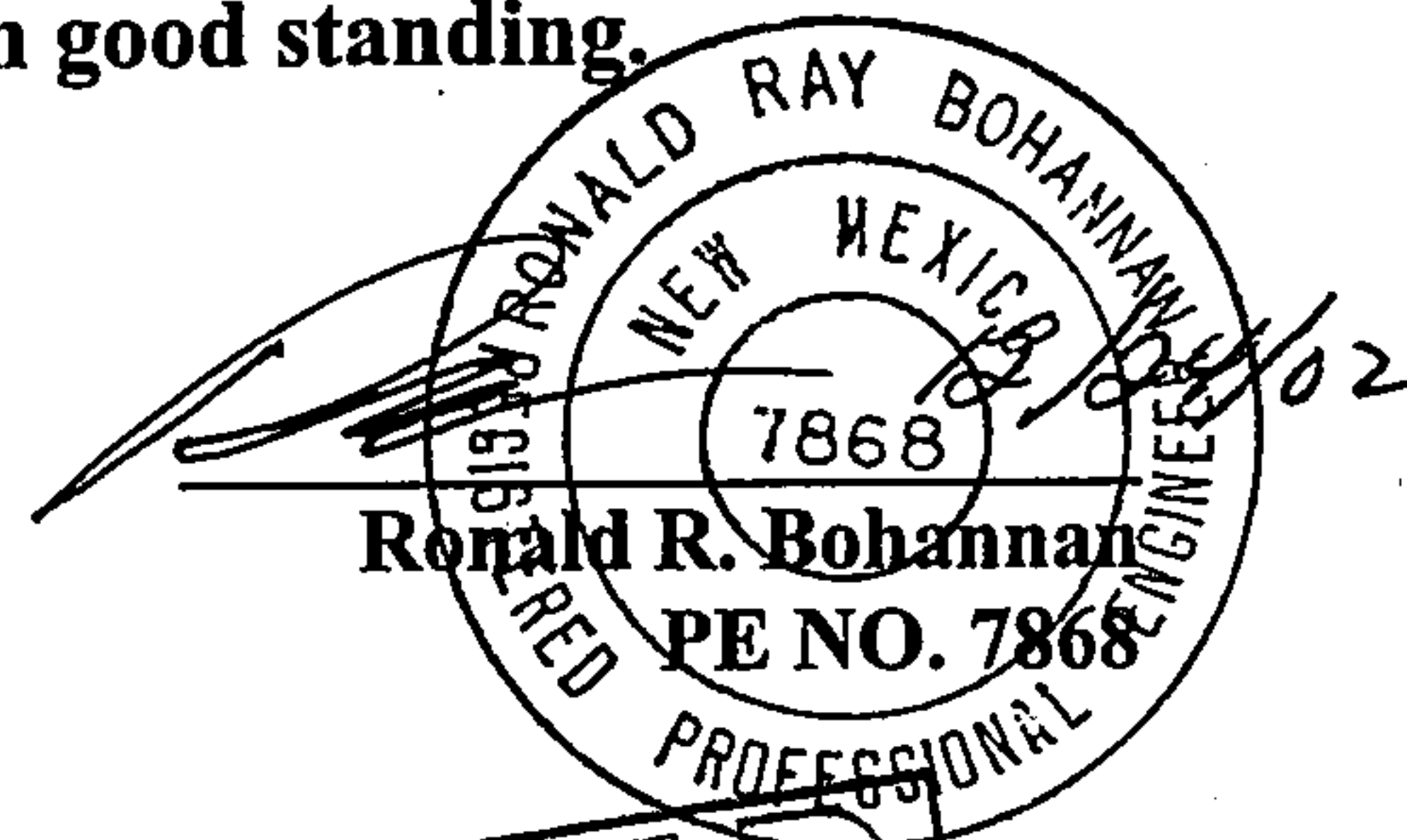
**Prepared by:**

**Tierra West, LLC  
8509 Jefferson NE  
Albuquerque, New Mexico 87113**

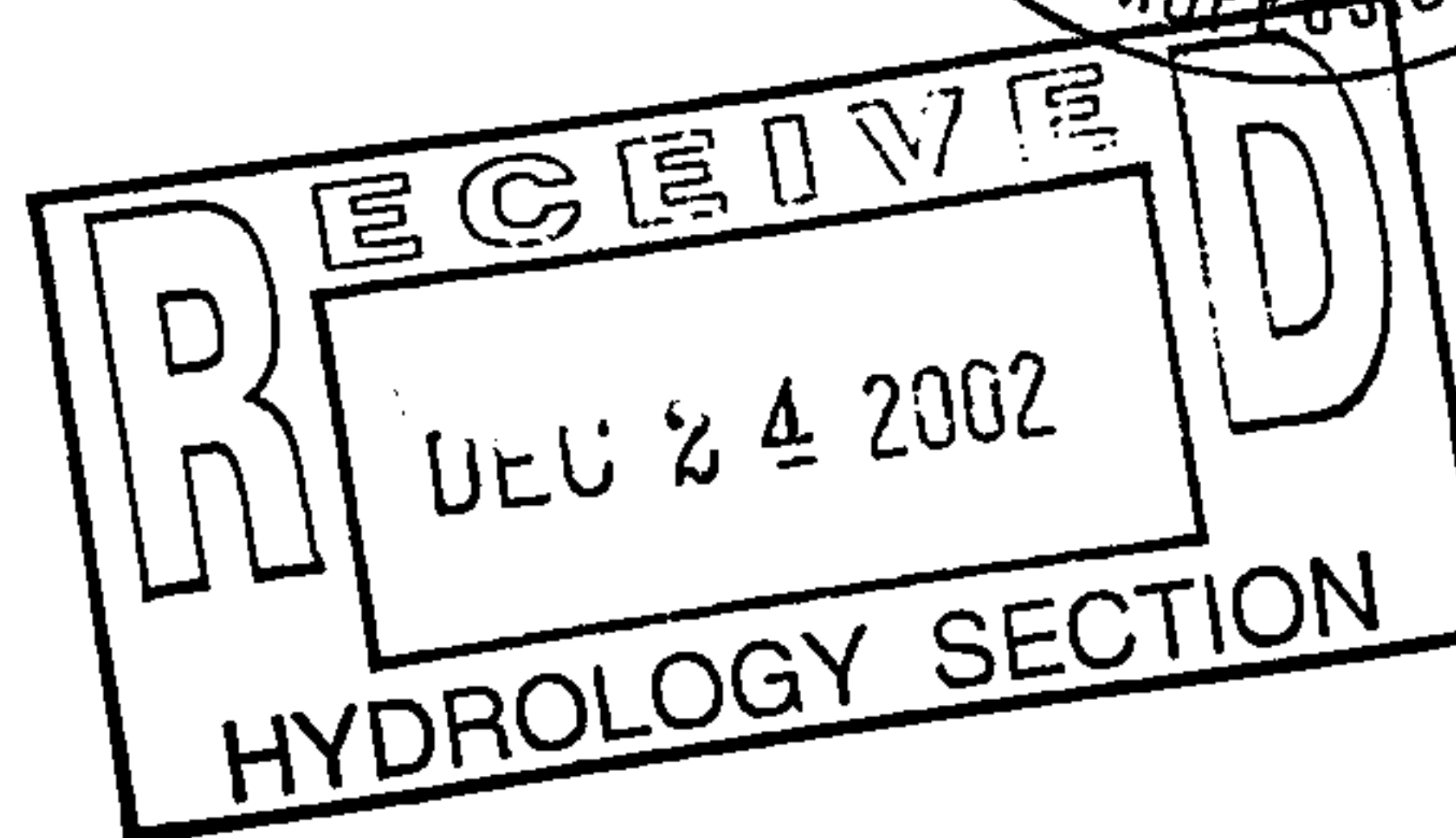
**Prepared for:  
Mr. Ken Johns  
1311 Tijeras Avenue NW  
Albuquerque, NM 87106**

**December, 2002**

**I certify that this report was prepared under my supervision, and I am a registered professional engineer in the State of New Mexico in good standing.**



**Job No 200036R**





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**MAP POCKET A**

Master Grading and Drainage Plan

**MAP POCKET B**

Master Utility Plan

**MAP POCKET C**

Basin Map

# **Section I**

## **Report**



## Location

The Coors and Redlands Plaza is located on the southeast corner of Coors and Redlands just south of the existing City of Albuquerque well site. The site is the proposed location of a new multiple business development and is shown on the attached Zone Atlas Map G-11. The site contains approximately 3.4095 acres. The legal description is Tract A-29-A Town of Atrisco Grant Northeast Unit. The purpose of the report is to provide the drainage analysis and management plan for approval of the Site Plan for Subdivision.

## Existing Drainage Conditions

The site is currently undeveloped. The area surrounding the site was part of SAD 198 under City Project 2532. The SAD did not include the entire parcel, but only a portion. The remaining portion was to drain south. The SAD installed the storm drain system in Redlands to handle the developed flow conditions. This project will direct the flow towards Redlands and Corona for compliance with that plan and limit the flow to the approved discharge rates.

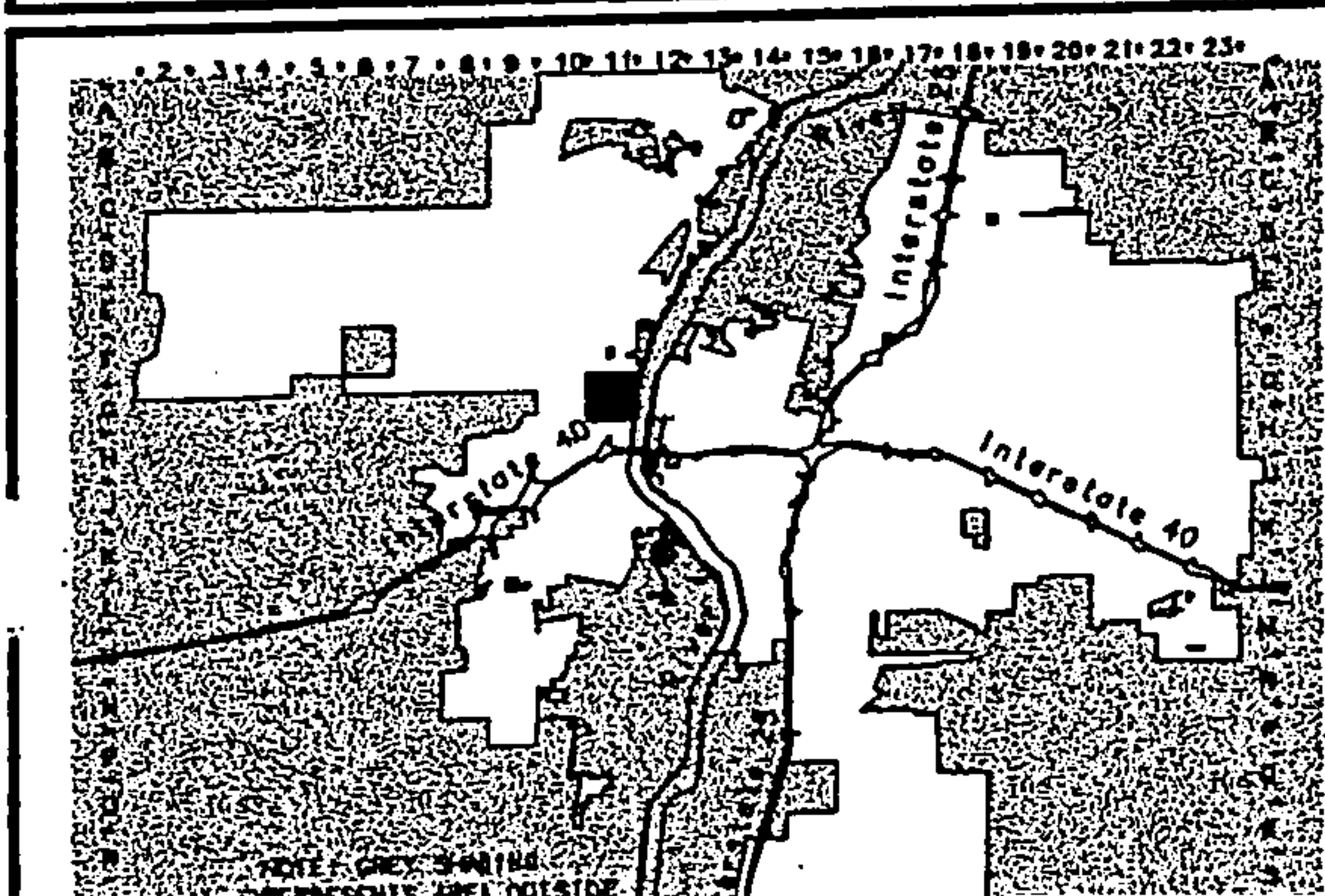
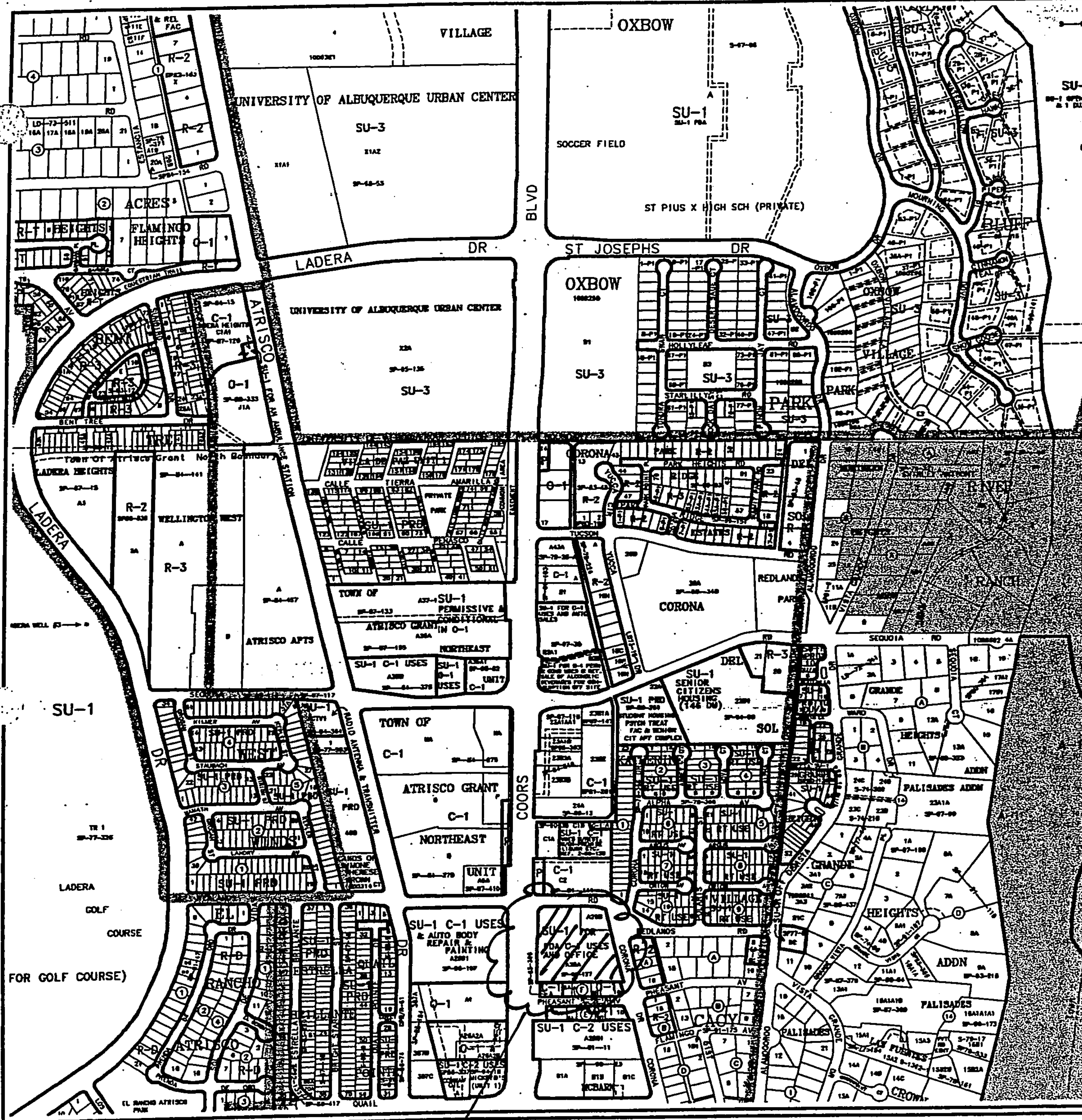
There are no offsite flows entering the site. Redlands to the north of the site intercepts any flows from the north from entering the site, while Corona directs flows to the north. The site south contains all of the flow on their site.

## FIRM Map and Soil Conditions

The site is located on FIRM Map 35001C0327 D as shown on the attached excerpt. The map shows that the site lies within a an floodplain with a base flood elevation of 5100. The finished floor elevation of the building is proposed to be 5101.50, which is greater than one-foot above the existing floodplain. ✓

The site contains one soil from the Soil Conservation Service Soil Survey of Bernalillo County. The Madurez-Wink association is located on the East and West Mesas and has slow runoff and a moderate hazard of soil blowing.

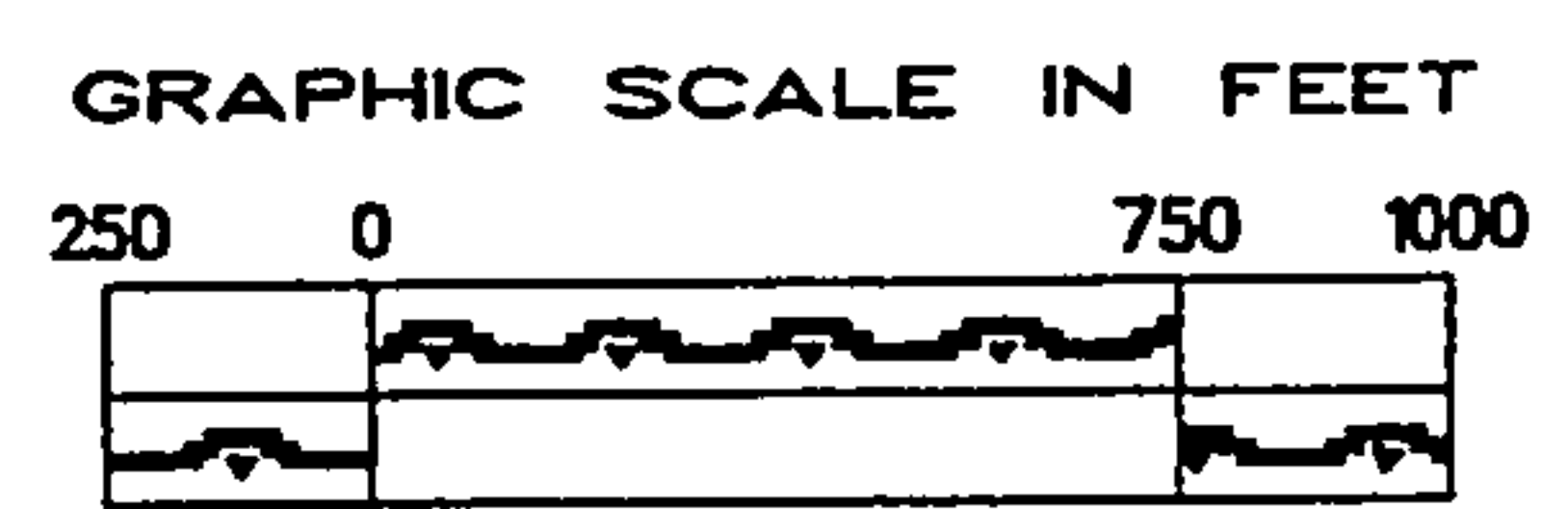




Site

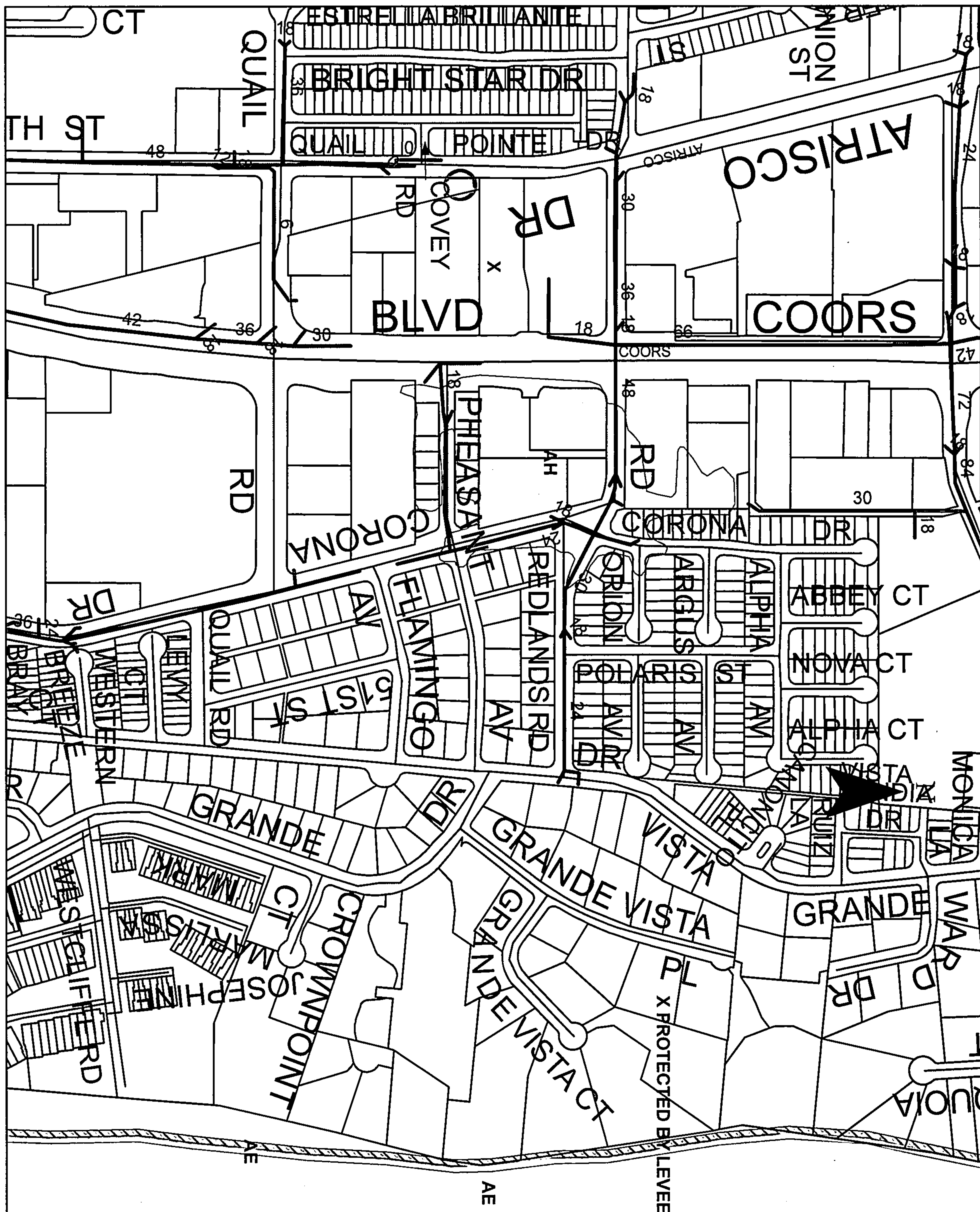


CITY OF  
Albuquerque  
Geographic Information Systems  
PLANNING DEPARTMENT  
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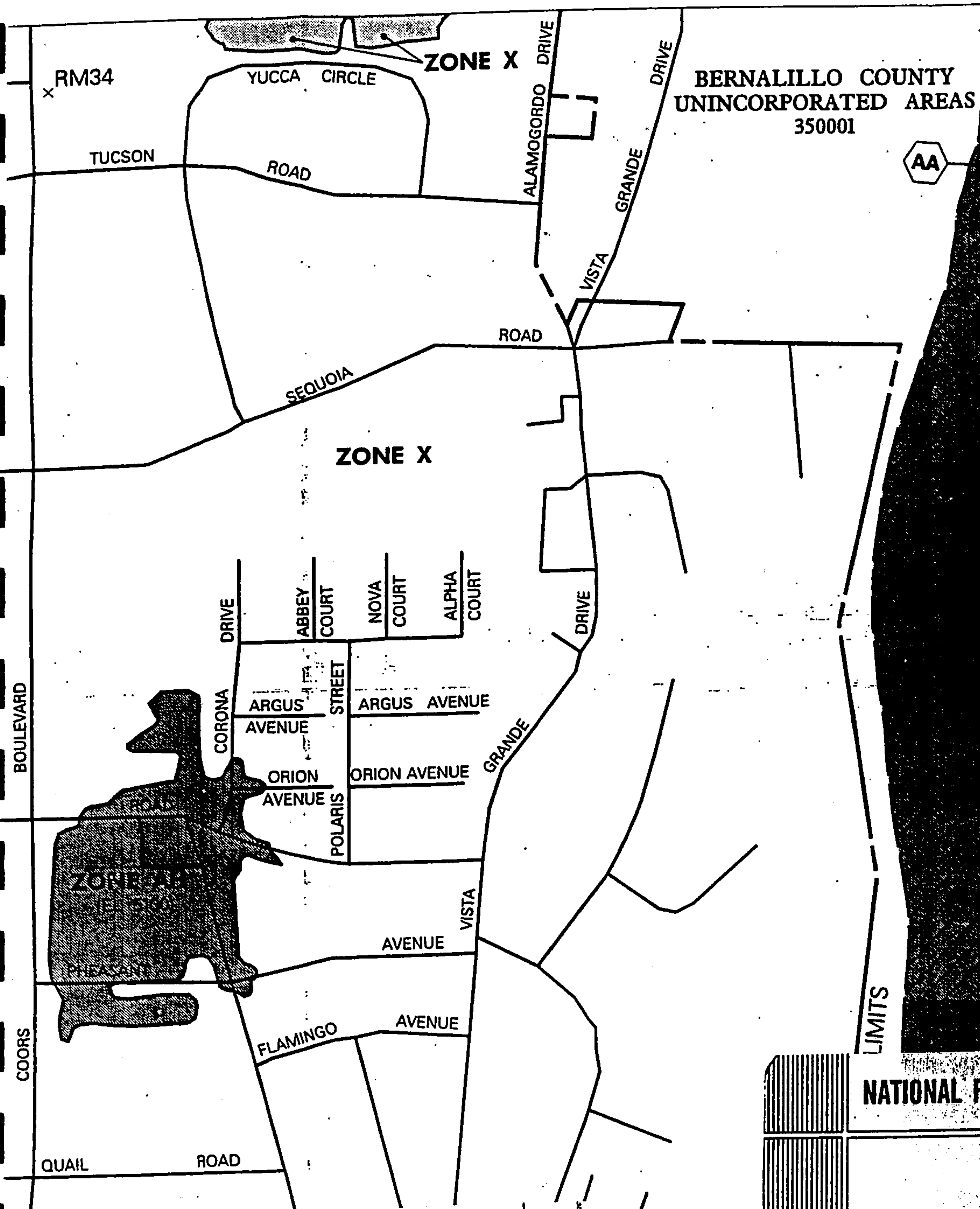


Zone Atlas Page  
**G-11-Z**









BERNALILLO COUNTY  
UNINCORPORATED AREAS  
350001

MAP NUMBER  
35001C0327 D

EFFECTIVE DATE:  
SEPTEMBER 20, 1996

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY,  
NEW MEXICO AND  
INCORPORATED AREAS

river side



## Criteria

The site was analyzed using the procedures from the Development Process Manual Volume 2, Chapter 22. The Weighted E method was used for estimating the volume and flow rate of runoff from each basin to the developed basin. The rational method was used to compute that portion of the site that contributed to the SAD 198 flows.

## On Site Drainage Plan

The proposed drainage management plan is to collect all of the flows in the central drive and then divert the flows to Redlands. At Redlands the flows will be collected by the existing dropsets in the street. The site was divided into 4 basins as shown on the calculations. Basin 2 is the street, all the remaining basins are commercial tracts. Basin 5 is the COA well site, that sheet flows north. The street will be allowed to drain to Redlands.

The site was part of SAD which did not cover the entire site. A limitation matching the capacity in the SAD will limit the flows to 2.67 cfs. per acre. The 100-year flows for basins 1, 3, and 4 will be 2.67 cfs., 2.13 cfs., and 3.31 cfs. respectively. The street will collect all the flows and discharge all of the flows to Redlands. The street has capacity for the combined flows. Each site will limit the flow to the street per the calculated amount.

## Summary

The project will limit the flow to the center street to account for the SAD 198 limitations on the storm drainage. The flows will be limited to the flows listed in the drainage calculation sheet. All infrastructure will be installed with the listed development and as such, no infrastructure list is needed.

**Section II**  
**Runoff Calculations**

## RUNOFF CALCULATIONS

The site is @ Zone 1

### LAND TREATMENT

Proposed

B = 10 %

D = 90 %

Existing

B = 100 %

*doesn't match  
proposed % on  
next page.*

### EXCESS PRECIPITATION, E (INCHES)

<u>100-Year</u>	<u>10-Year</u>
E <sub>a</sub> = 0.44	E <sub>a</sub> = 0.08
E <sub>b</sub> = 0.67	E <sub>b</sub> = 0.22
E <sub>c</sub> = 0.99	E <sub>c</sub> = 0.44
E <sub>d</sub> = 1.97	E <sub>d</sub> = 1.24

### PEAK DISCHARGE (CFS/ACRE)

<u>100-Year</u>	<u>10-Year</u>
Q <sub>a</sub> = 1.29	Q <sub>a</sub> = 0.24
Q <sub>b</sub> = 2.03	Q <sub>b</sub> = 0.76
Q <sub>c</sub> = 2.87	Q <sub>c</sub> = 1.49
Q <sub>d</sub> = 4.37	Q <sub>d</sub> = 2.89

The Site is @ Zone 1				<b>RUNOFF CALCULATIONS</b>						
<b>LAND TREATMENT</b>										
Proposed Existing										
B = 20% A = 100%										
D = 80%										
<b>DEPTH (INCHES) @ 100-YEAR STORM</b>				<b>DEPTH (INCHES) @ 10-YEAR STORM</b>						
P60 = 1.87				P60 = 1.87 x 0.667 = 1.247						
P360 = 2.20				P360 = 2.20 x 0.67 = 1.467						
P1440 = 2.66										
<b>Zone 1</b>										
<b>Land Treatment</b>										
From Table A-8 Soil Treatment				A	B	C	D			
Weighted E 100 yr.				0.44	0.67	0.99	1.97			
Weighted E 10 yr.				0.08	0.22	0.44	1.24			
<b>Peak Discharge</b>										
From Table A-9										
100 Yr				1.29	2.03	2.87	4.37			
10 Yr				0.24	0.76	1.49	2.89			
<b>Volume Undeveloped</b>										
	Soil Treatment Type	Acreage	100 Yr	10 Yr	Vol 100	Vol 10				
Basin A	A	3.4104	0.4400	0.0800	0.1250	0.1364				
Basin B	A	0.0000	0.4400	0.0800	0.0000	0.0000				
Basin C	A	0.0000	0.4400	0.9800	0.0000	0.0000				
<b>Volume Developed</b>										
	Total	Acre "A"	Acre "B"	Acre "C"	Acre "D"		Weight E 100	E 10	V 100 Yr	V 10 Yr
Basin 1	0.99	0.0000	2.7900	0.0000	4.1800		10.2060	5.8556	0.8420	0.4831
Basin 2	0.38	0.0000	3.2200	0.0000	4.8300		30.7171	17.6253	0.9727	0.5581
Basin 3	0.8	0.0000	0.0000	0.0000	0.9413		2.3180	1.4590	0.1545	0.0973
Basin 4	1.24	0.0000	0.9993	0.0000	4.0000		6.8948	4.1773	0.7125	0.4317
Basin 5	0.39	0.0000	2.4000	0.0000	3.5900		22.2572	12.7682	0.7234	0.4150
<b>Peak Discharge</b>										
	Total	Acre "A"	Acre "B"	Acre "C"	Acre "D"				Q 100 Yr	Q 10 Yr
Basin 1	0.99	0.0000	0.1980	0.0000	0.7920				3.8630	2.4394
Basin 2	0.38	0.0000	0.0760	0.0000	0.3040				1.4828	0.9363
Basin 3	0.8	0.0000	0.1600	0.0000	0.6400				3.1216	1.9712
Basin 4	1.24	0.0000	0.2480	0.0000	0.9920				4.8385	3.0554
Basin 5	0.39	0.0000	0.0780	0.0000	0.3120				1.5218	0.9610



## COMPUTING THE ALLOWABLE FLOW FOR THE SAD

$Q = CIA$  Rational Formula

$C = 0.93$  100 year

$I = 4.70$  inch per hr.

$A = 2.18$  acres = 9.828 cfs.

$Q = CIA (0.93) (4.70) (2.18) = 9.828$  cfs. total allowed for the site

Total 13.3059 of the site with streets

Subtract out street flow from Basin 2

Basin 2

$9.5828 - 1.4828$  (roadway) = 8.1 allowable

$8.1 / 3.0304$  acre - 2.67 cfs. / acre

Flows per Basin:

Basin 1 2.67 cfs.

Basin 2 1.48 cfs.

Basin 3 2.13 cfs.

Basin 4 3.31 cfs.

## SIDEWALK CULVERT CAPACITY

Check the capacity of the sidewalk culvert to limit flow.

$$Q = CLH^{3/2} \quad \text{King \& Brater (5-10)}$$

$$L = \frac{Q}{CH^{3/2}} = \frac{Q}{1.4259} = Q(.7013)$$

$$C = 2.60$$

$$H = .67$$

Opening for Sidewalk Culvert

$$\text{Basin 1} \quad Q = 2.67 \quad L = 1.87 \text{ ft.}$$

$$\text{Basin 2} \quad Q = 2.13 \quad L = 1.49 \text{ ft.}$$

$$\text{Basin 3} \quad Q = 3.31 \quad L = 2.3 \text{ ft.}$$

# Street Capacity Calculations

## Common Street

30' F-F Street Section with 4" curb

Slope= 0.57

For water depths less than 0.0625 feet

Y= Water depth  
Area =  $16 \cdot Y^2$   
P=  $\text{SQRT}(1025 \cdot Y^2) + Y$   
n= 0.017

Depth (ft)	Area (ft <sup>2</sup> )	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.0100	0.00	0.33	0.00	0.00	0.01	1.89	0.02	3.33	0.0424
0.0175	0.00	0.58	0.01	0.01	0.03	2.74	0.05	3.66	0.0822
0.0250	0.01	0.83	0.01	0.03	0.07	3.48	0.09	3.88	0.1252
0.0325	0.02	1.07	0.02	0.07	0.14	4.15	0.13	4.05	0.1708
0.0400	0.03	1.32	0.02	0.12	0.24	4.76	0.19	4.20	0.2182
0.0475	0.04	1.57	0.02	0.19	0.39	5.34	0.25	4.32	0.2673
0.0550	0.05	1.82	0.03	0.29	0.57	5.89	0.32	4.42	0.3178
0.0625	0.06	2.06	0.03	0.40	0.80	6.41	0.40	4.52	0.3695

For water depths greater than 0.0625 ft but less than 0.333 ft

Y1= Y-0.0625  
A2=  $A1 + 2 \cdot Y1 + 25 \cdot Y1^2$   
P2=  $P1 + \text{SQRT}(2501 \cdot Y1^2)$

Depth (ft)	Area (ft <sup>2</sup> )	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.0630	0.06	2.09	0.03	0.41	0.82	6.43	0.40	4.51	0.3718
0.0900	0.14	3.47	0.04	1.04	2.08	7.64	0.69	4.49	0.5276
0.1200	0.26	5.00	0.05	2.39	4.79	9.20	1.10	4.68	0.7367
0.1500	0.43	6.53	0.07	4.61	9.22	10.75	1.61	4.89	0.9650
0.1968	0.78	8.91	0.09	10.19	20.38	13.03	2.56	5.18	1.3455
0.2100	0.90	9.59	0.09	12.30	24.60	13.65	2.87	5.25	1.4569
0.2400	1.21	11.12	0.11	18.08	36.16	15.00	3.60	5.40	1.7158
0.3096	2.08	14.67	0.14	37.42	74.84	17.96	5.56	5.69	2.3411
0.3330	2.43	15.86	0.15	46.00	92.00	18.91	6.30	5.77	2.5581

← Street Capacity

For water depths greater than 0.333 ft but less than 0.513 ft

Y2= Y - 0.333  
A3=  $A2 + Y2 \cdot 16 + 25 \cdot Y2^2$   
P3=  $P2 + \text{SQRT}(2501 \cdot Y2^2)$

Depth (ft)	Area (ft <sup>2</sup> )	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.3400	2.55	16.21	0.16	48.91	97.82	19.21	6.53	5.81	2.6268
0.3700	3.06	17.71	0.17	62.61	125.21	20.47	7.57	5.93	2.9232
0.4050	3.71	19.46	0.19	81.25	162.51	21.88	8.86	6.06	3.2730
0.4200	4.01	20.21	0.20	90.17	180.34	22.46	9.43	6.11	3.4242
0.4300	4.22	20.71	0.20	96.43	192.86	22.85	9.83	6.14	3.5255
0.4496	4.64	21.69	0.21	109.45	218.90	23.60	10.61	6.20	3.7250
0.4800	5.32	23.21	0.23	131.69	263.38	24.73	11.87	6.29	4.0368
0.5130	6.12	24.86	0.25	158.75	317.50	25.93	13.30	6.38	4.3788

**MAP POCKET A**

**MASTER GRADING AND DRAINAGE PLAN**



# TIERRA WEST, LLC

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January 3, 2003

Mr. Bradley L. Bingham, P.E.,  
Senior Engineer  
CITY OF ALBUQUERQUE  
P.O. Box 1293  
Albuquerque, NM 87103

**RE: Coors & Redlands**

Dear Brad:

Thank you for taking time to visit with me concerning the above referenced Drainage Plan. Attached is Table 2 (Design Flows) and Map 4 from the SAD 198 Drainage Study to be included with our submittal.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

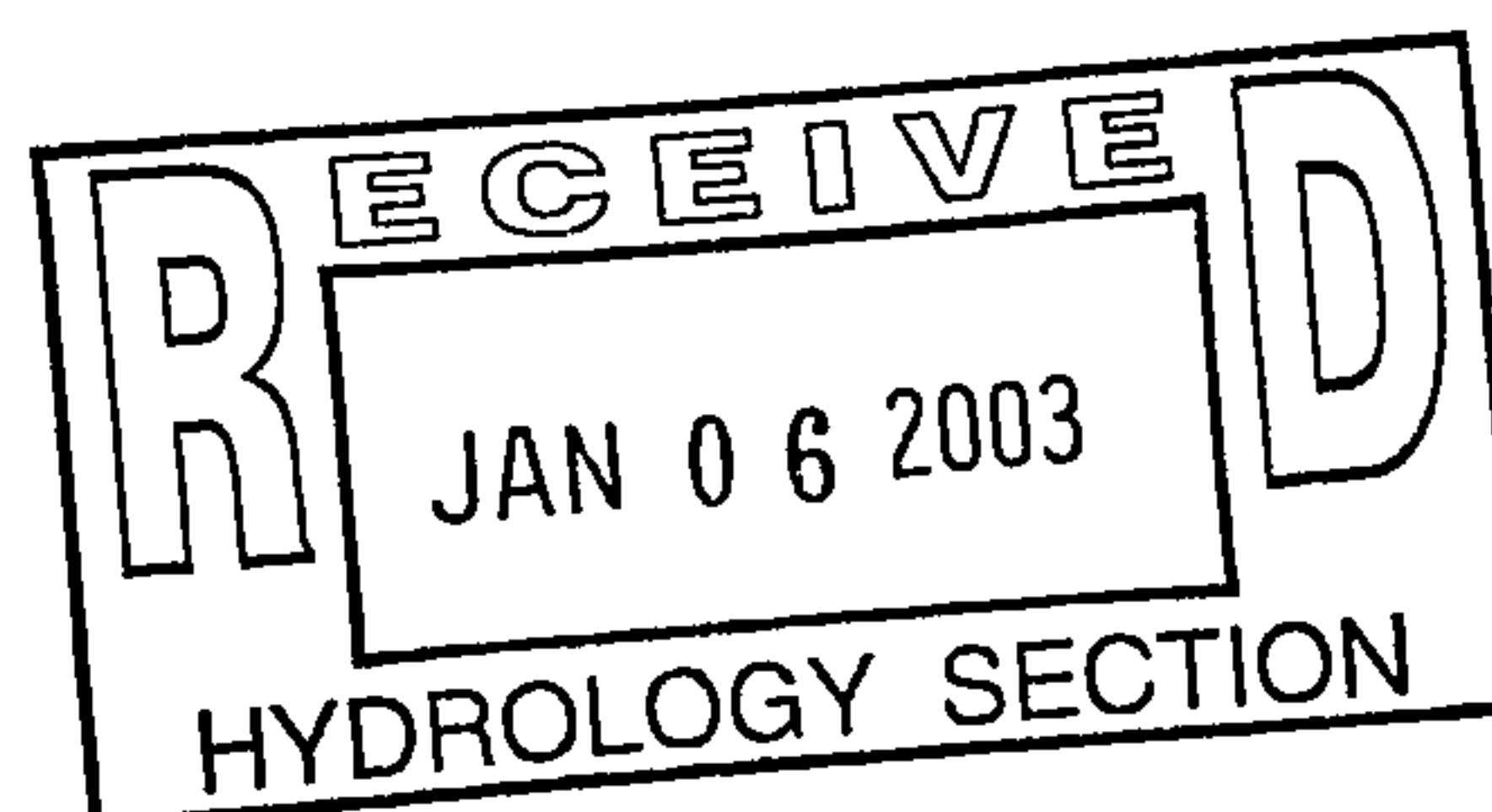


Ronald R. Bohannon, P.E.

Enclosure/s

JN: 200036R  
RRB/ba

2000:200036R Brad Bingham 010303



**MAP POCKET B**

**MASTER UTILITY PLAN**

**MAP POCKET C**

**BASIN MAP**