DRAINAGE INFORMATION SHEET

PROJECT TITLE: RUTLEDGE LOT 1023 ZONE	ATLAS/DRNG. FILE #: D-2300/F					
DRB #: EPC #:						
LEGAL DESCRIPTION: LOT 1023, UNIT 10, SA						
CITY ADDRESS: 1023 TRAMWAY LANE NE						
ENGINEERING FIRM: MCDOWELL ENGINEERING,						
ADDRESS: 7820 BEVERLY HILLS NE						
OWNER: ROSEMARY RUTLEDGE	CONTACT: ROSEMARY RUTLEDGE					
	PHONE: 828-9644					
ARCHITECT:	CONTACT:					
	PHONE :					
SURVEYOR:						
	PHONE:					
CONTRACTOR:	CONTACT:					
	PHONE :					
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:					
DRAINAGE REPORT	SKETCH PLAT APPROVAL					
X DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL					
CONCEPTUAL GRADING & DRAIN. PLAN	S.DEV PLAN FOR SUB'D APPROVAL					
X GRADING PLAN	S.DEV PLAN FOR BLDG PMT APPR.					
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL					
ENGINEER'S CERTIFICATION	FINAL PLAT APPROVAL					
OTHER	FOUNDATION PERMIT APPROVAL					
	<u>x</u> BUILDING PERMIT APPROVAL					
PRE-DESIGN MEETING:	CERT. OF OCCUPANCY APPROVAL					
YES	GRADING PERMIT APPROVAL					
XNO	PAVING PERMIT APPROVAL					
COPY PROVIDED	S.A.D. DRAINAGE REPORT					
	DRAINAGE REQUIREMENTS					
	OTHER(SPECIFY)					
DATE SUBMITTED: JUNE 9, 1999 BY: JACKIE S. MCDOWELL, P.E.	JUN 11 1999					
DI.	HYDROLOGY SECTION					

County of Bernalillo

State of New Mexico

BOARD OF COUNTY COMMISSIONERS
TOM RUTHERFORD, CHAIR
DISTRICT 3
BARBARA J. SEWARD, VICE CHAIR
DISTRICT 4
KEN SANCHEZ, MEMBER
DISTRICT 1
STEVE D. GALLEGOS, MEMBER
DISTRICT 2
LES HOUSTON, MEMBER
DISTRICT 5
JUAN R. VIGIL, COUNTY MANAGER



2400 BROADWAY, S.E. ALBUQUERQUE, NEW MEXICO 87102 PUBLIC WORKS (505) 848-1500 MARK J. CARRILLO, ASSESSOR JUDY D. WOODWARD, CLERK IRA ROBINSON, PROBATE JUDGE JOE BOWDICH, SHERIFF ORLANDO VIGIL, TREASURER

June 17, 1999

Jackie McDowell, P.E. McDowell Engineering, Inc. 7820 Beverly Hills Ave. NE Albuquerque, New Mexico 87122

RE: Grading and Drainage Plan for Lot 1023, Sandia Heights South, (D23/D1F) (PWDN-990124) Engineer's Stamp Dated 6/9/99.

Dear Jackie:

This letter is a compilation of comments from my office as well as from County Public Works and AMAFCA. Prior to approval for Grading Permit release for the above referenced Lot, the plan must be revised to address the following comments:

- 1. The center portion of this Lot that is in the existing FEMA floodplain must be within an AMAFCA easement. No structures will be allowed within this easement without AMAFCA Board approval. Therefore, it is recommended that the residence be moved outside of the AMAFCA easement, or wait until the new FEMA maps are adopted for the floodplain to be removed.
- 2. Please use the more recent mapping for the off-site drainage basin map.

For your information, the March 31, 1999 preliminary flood maps referenced on the plan will not be adopted by the Community at this time. We have prepared comments and will request that FEMA reissue the preliminary maps. If FEMA agrees, it appears that new flood maps will not be adopted for at least eight months.

If you have any questions regarding these comments, please call me at 924-3982, or contact Brad Catanach at the County.

Sincerely,

Susan M. Calongne, P.E.

City/County Floodplain Administrator

c: Lisa Ann Manwill, P.E., Albuquerque Metropolitan Arroyo Flood Control Authority Brad Catanach, P.E., Bernalillo County Public Works Division File

RNALILLO COUNTY

NEW SUBMITTAL

SUSAN

PWD SUBMITTAL

Use for all PWD applications EXCEPT Street Excavation

	☐ RESUBMITT	AL			10		_	•
	☐ FINAL SIGN	OFF	TODA	AY'S DATE: 10-9-	99	CAS	IE NO: PWDN	990124
ZER-	OWNER ROS	Samal	y Rutle	don /	PHONE 82	8-9644		
OWNE	1	SKIIWI		A 0	^ /	_		
0	ADDRESS (128	Paare.	Ct. NE	CITY A16	z1P67111		
	AGENT / CONTRA	McDo	well Engir	neering, Inc.	A FREE TO A			
ENT	MAILING ADDRES:	7820 Re	verly Hills Av	enue NE		ZIP		
AG	STATE LICENSE	Albuque	que, NM 87	122		CLASS		
			and the second s				PHONE 828-	7U20
	ARCHITECT/ENGI	INEER			LICENSE NO.		PHONE 825	2730
	SITE ADDRESS / (DIRECTIONS	1023	Tranwai	y Lane		ZONE ATLAS NO. D -	23
101			•	- Sanai	a Hts.	•		
INFORMATION	LEGAL DESCRIPT	rion / a	+* 10つ	3, Unit 10	-	a Height	Sayla	MARK SERVICION STREETING PROPERTY (S.C.) / FP 4 d. sociolo (SC
Ö	CEGAL DESCRIPT		1 (02	s, and co	, ouran	a Herga.	1	
					~·• =		SIZE: 0.91	ae.
SITE	EXISTING BUILDING(S) AND					PROPOSED BUILDING(S):		
£	UPC	02	3-06	3-375-	332-	101-1	4	
					PE OF SUBMITTAL			
	☐ REPLAT			•			LYSIS / TRAFFIC STUDY	
	☐ MINOR S	SUBDIVISIO	N			INFRASTRUCTURE LIS	T / DESIGN REVIEW	
	☐ MAJOR :	SUBDIVISIO	N			SPECIAL USE PERMIT		
	☐ CONSTR	RUCTION DR	AWINGS			BARRICADING PERMIT	г	
	GRADIN	IG & DRAIN.	AGE PLAN			BUILDING PERMIT		7 Management
**			GRADING & DRAI	NAGE PLAN		INSPECTION		
		ICE REQUES				O'THER (Specify):	JUN 11 19	99 []
	☐ LAND D	IVISION				Military Communication		
	of any variance approval of plan requiring the co	or violation as, specifica prection of e	of any of the provious, computation errors in said plans	val of plan specifications, consistent of any COUNTY or Sis, and shop drawings prevent, specifications, computation or STATE codes, ordinance	TATE codes, ording any authorized Codes, or shop drawing	op drawings, shall not be nances, standards, or poli OUNTY representative of s or from stopping const	icies. Nor shall such issu or COUNTY inspector fo	ance of a permit or
	Owner 5	Agent [Contractor	Signature	Mes) Jone	Date 6	999
>-		• • • • • • • • • • • • • • • • • • • •	•••••••	BERNAI	JILLO COUNTY USE (ONLY	***************************************	
OUNTY	C/R's	•••••••		•			TOTAL FEE	
no	:						Receipt No	
Ü							Received By	

ATTACHMENT NO. 1

SUPPLEMENTAL CALCULATIONS TO

SANDIA HEIGHTS SOUTH LOT 1023 UNIT 10

GRADING & DRAINAGE PLAN

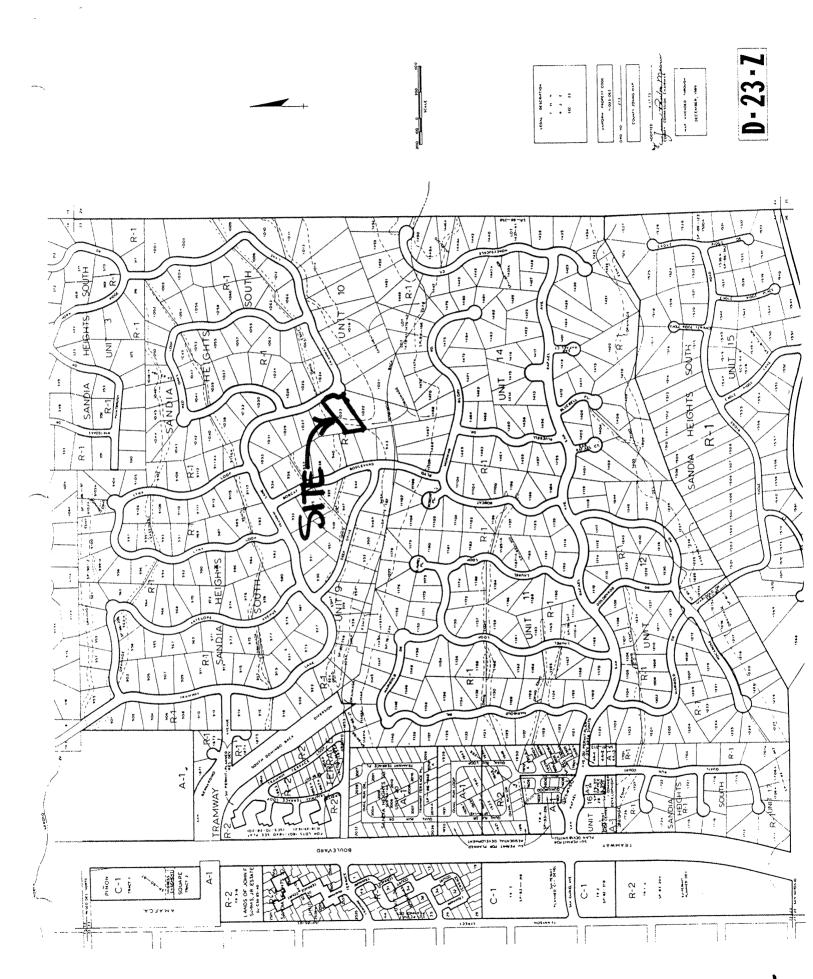
June 9, 1999

I, Jackie S. McDowell, Registered Professional Engineer, No. 10903, hereby certify that I have prepared the attached calculations.

Jackie S. McDowell, P.E. Date

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FEMA Floodway Map ID (1983)	2
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AGIS Flood Zone Plot	6
FEMA FIRM Map ID (1999)	7
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NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY

FLOOD BOUNDARY AND FLOODWAY MAP

CITY OF

ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY

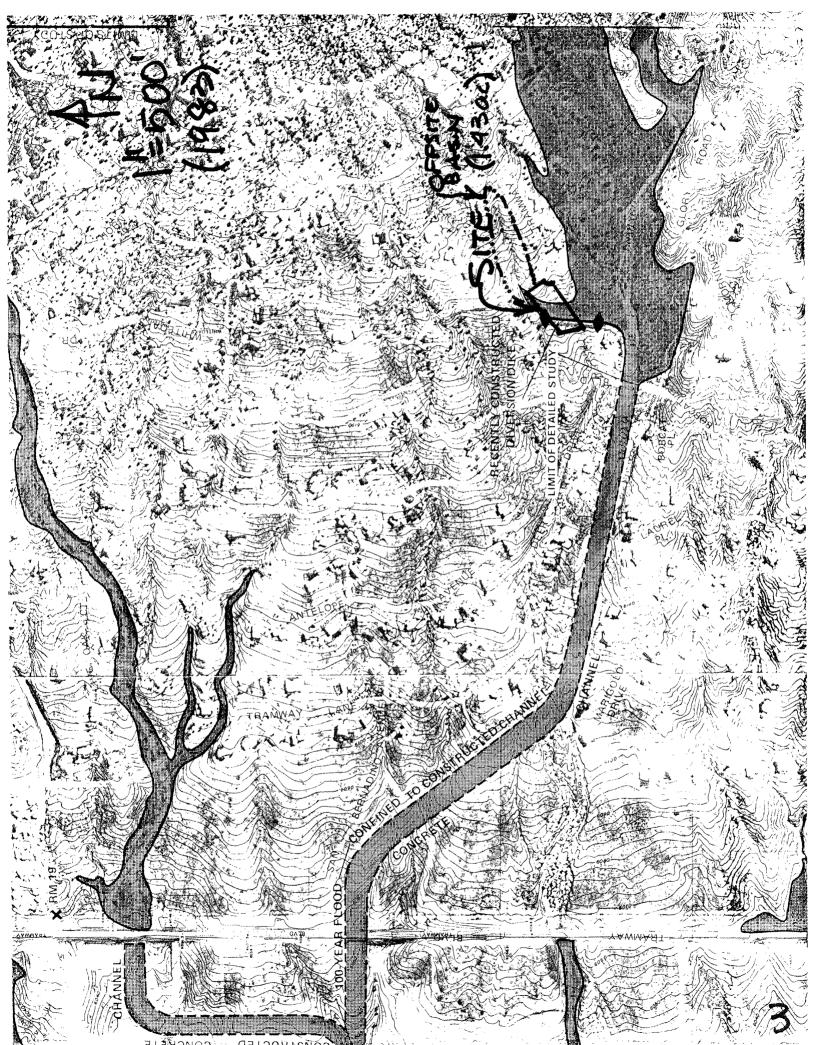
PANEL 11 OF 50

COMMUNITY-PANEL NUMBER

350002 0011

EFFECTIVE DATE: OCTOBER 14, 1983

Federal Emergency Management Agency



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 161 OF 825

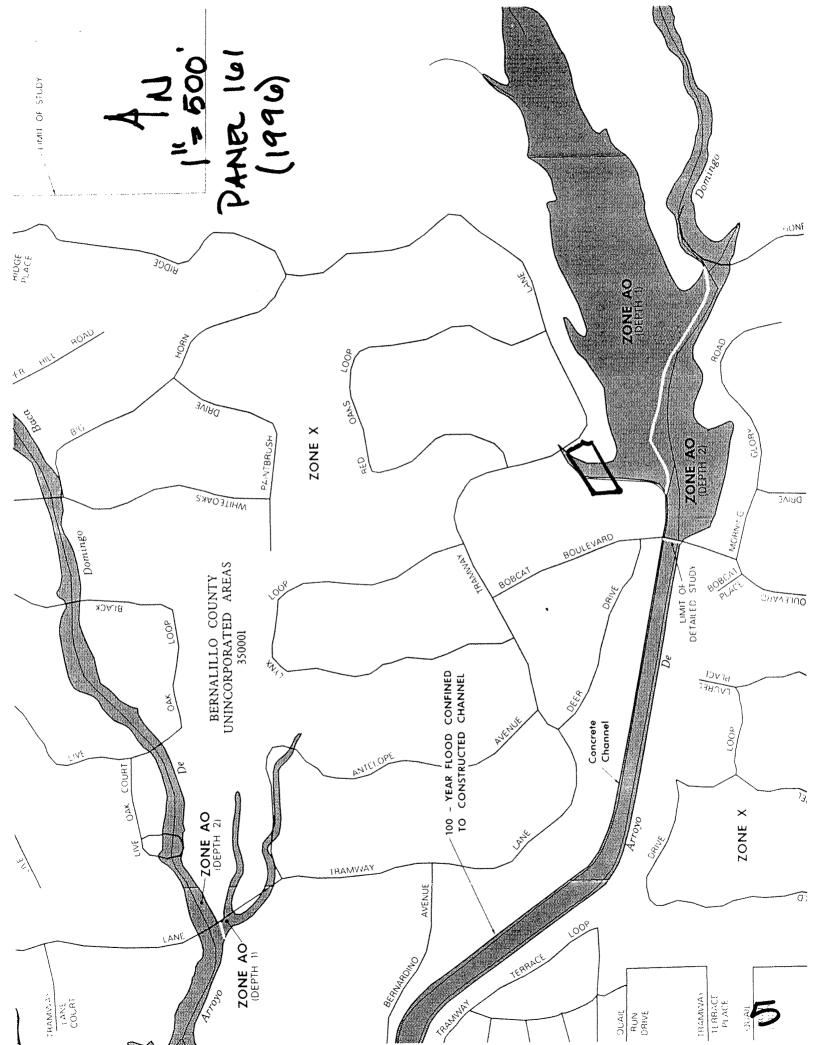
(SEE MAP INDEX FOR PANELS NOT PRINTED)

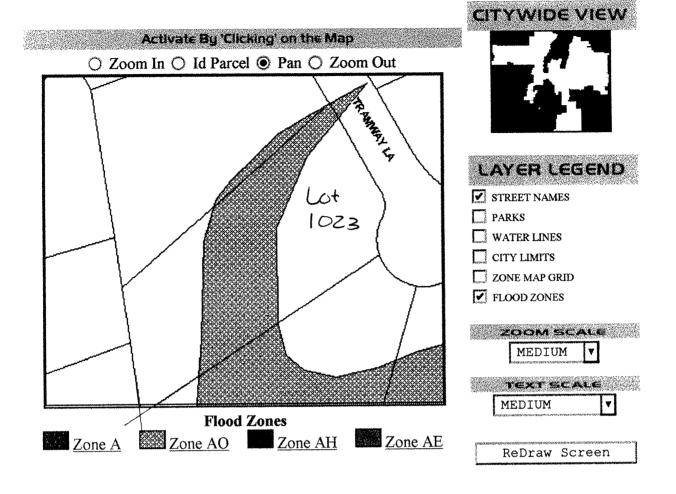
COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0161	D
BERNALIL_O COUNTY. UNINCORPORATED AREAS	350001	0161	D

MAP NUMBER 35001C0161 D

EFFECTIVE DATE: SEPTEMBER 20, 1996

Federal Emergency Management Agency





EUL VIEW

CHICK ADBRESS DUERY

NEW CULEXY

ALBUQUERQUEGIS

1996 FERRA MAP (as digitinged on G&D Plan)





APPROXIMATE SCALE IN FEET
500 0 500

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 161 OF 825

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

NUMBER PANEL SUFFIX

ALBUQUERQUE, CITY OF BERNALILLO COUNTY, UNINCORPORATED AREAS 50002 01

31

0161

ZONE AO (DEPTH 1)

L IS

35°09'22''

ю6°28'07"

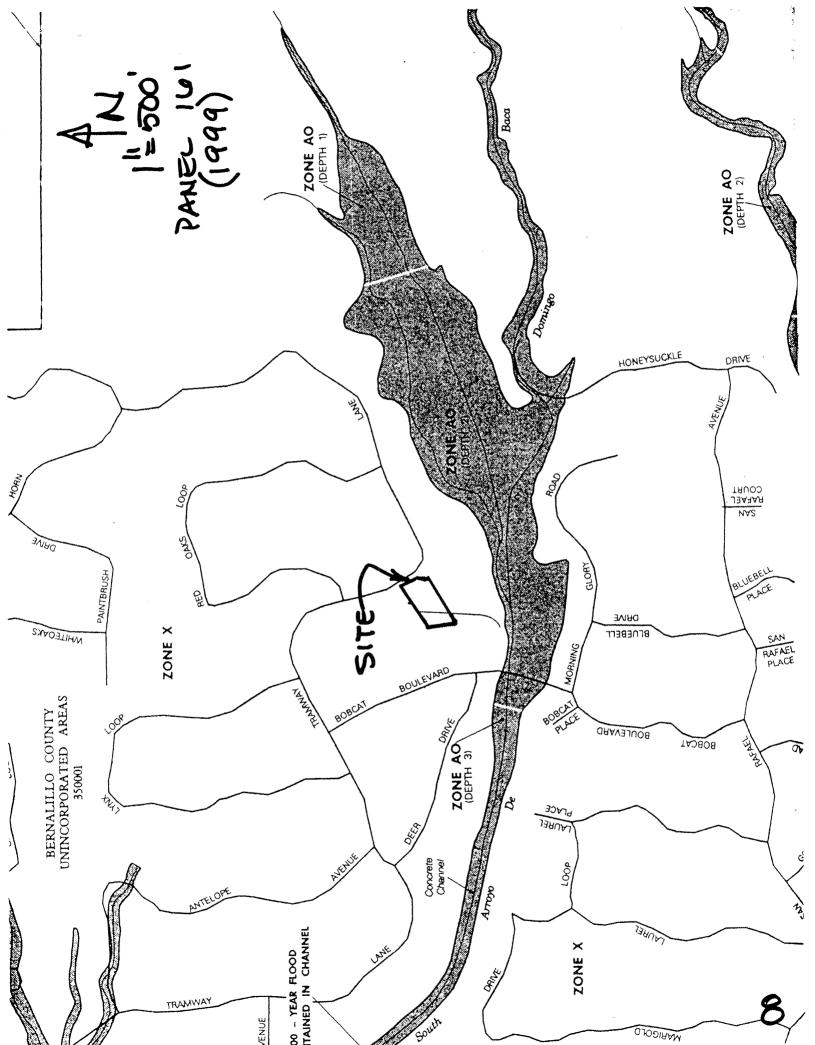
MAP NUMBER 35001C0161 E

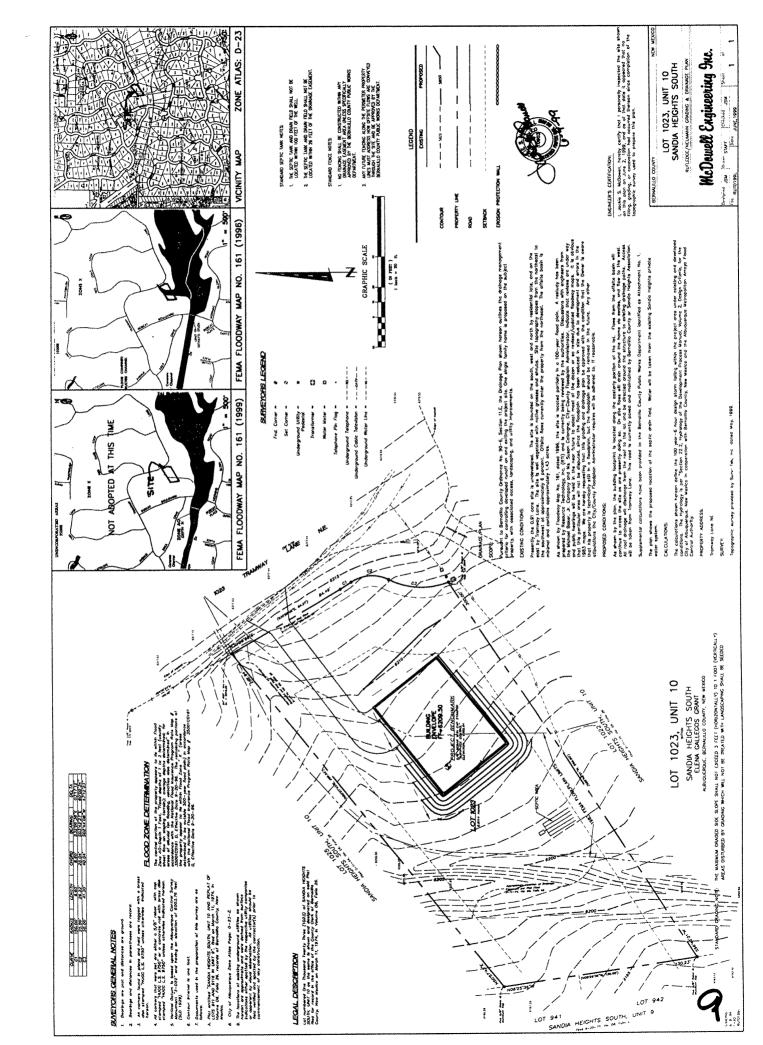
MAP REVISED:

PRELIMINARY MICHAEL BAKER, JR., INC.

MAR 2 9 1999

Federal Emergency Management Agency





Project: RUTLEDGE/NEUMANN LOT 1023 ON-SITE CALCULATIONS

08-Jun-99

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the

Development Process Manual, Volume 2, Design Criteria for the

City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 4

Depth at 100-year, 6-hour storm: (Table A-2)

P ==

2.90 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) + (5*N))

where N = units/acre

N = -----, ok < 6

N = 0.00

Therefore Percent Treatment D =

0.00%

(includes local streets)

Areas: (acres)		
·	Existing	Proposed
Treatment A	0.91	0.40
Treatment B	0.00	0.18
Treatment C	0.00	0.18
Treatment D	0.00	0.15
Total (acres) =	0.91	0.91

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.06	0.10	0.02	0.05	0.00	0.02
Volume (cubic feet) =	2,643	4,259	925	2,104	66	827

Total Q(p), cfs:						
	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	2.00	0.88	0.79	0.35	0.05	0.02
Treatment B	0.00	0.53	0.00	0.26	0.00	0.07
Treatment C	0.00	0.67	0.00	0.41	0.00	0.18
Treatment D	0.00	0.79	0.00	0.54	0.00	0.33
Total Q (cfs) =	2.00	2.86	0.79	1.55	0.05	0.59

Project: RUTLEDGE/NEUMANN LOT 1023 OFF-SITE CALCULATIONS

08-Jun-99

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the

Development Process Manual, Volume 2, Design Criteria for the

City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 4

Depth at 100-year, 6-hour storm: (Table A-2)

P =

2.90 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

7*SQR((N*N) + (5*N))

where N = units/acre

N = -----, ok < 6

N =

0.00

Therefore Percent Treatment D =

0.00%

(includes local streets)

Areas: (acres)		
	Existing	Proposed
Treatment A	1.43	0.61
Treatment B	0.00	0.29
Treatment C	0.00	0.29
Treatment D	0.00	0.24
Total (acres) =	1.43	1.43

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.10	0.15	0.03	0.08	0.00	0.03
Volume (cubic feet) =	4,153	6,745	1,453	3,345	104	1,324

Total Q(p), cfs:						
	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	3.15	1.34	1.24	0.53	0.07	0.03
Treatment B	0.00	0.85	0.00	0.42	0.00	0.11
Treatment C	0.00	1.08	0.00	0.66	0.00	0.29
Treatment D	0.00	1.26	0.00	0.86	0.00	0.52
Total Q (cfs) =	3.15	4.53	1.24	2.46	0.07	0.95

