County of Bernalillo

State of New Mexico

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

2400 BROADWAY, S.E.
ALBUQUERQUE, NEW MEXICO 87102
PUBLIC WORKS (505) 848-1500

MARK CARRILLO, ASSESSOR
JUDY D. WOODWARD, CLERK
IRA ROBINSON, PROBATE JUDGE
JOE BOWDICH, SHERIFF
ORLANDO VIGIL, TREASURER

April 6, 2001

Shahab Biazar
Advanced Engineering and Consulting, LLC
10205 Snowflake Ct. NW
Albuquerque New Mexico 87114

RE: Grading and Drainage Plan for Alex Paint & Body (L11-D22) (PWDN 10024)
Dated March 19, 2001

Dear Mr. Biazar:

The above referenced plan received March 26 is approved. Upon completion of the project the engineer will need to certify the project.

If you have any questions please contact me at 924-3982.

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator

C: Lynn Mazur, AMAFCA
Brian Kent, Bernalillo County
File

PWDN
10024

Flood Plain 3/22/01

Rec'd 10:12

BERNALILLO COUNTY

PWD SUBMITTAL

Use for all PWD applications EXCEPT Street Excavation

- [ ] NEW SUBMITTAL
- [X] RESUBMITTAL
- [ ] FINAL SIGNOFF

TODAY'S DATE: 03/20/2001

CASE NO: PWDN-10024

OWNER

OWNER	Alex Paint & Body	PHONE	(505) 242-2477
MAILING ADDRESS	2606 Bridge Blvd. SW	CITY	Alb. ZIP 87105

AGENT

AGENT / CONTRACTOR	Advanced Engineering and Consulting, LLC	PHONE	(505) 899-5570
MAILING ADDRESS	10205 Snowflake Ct., NW	CITY	Albuquerque ZIP NM 87114
STATE LICENSE NO.	EXP DATE	VOLUME	CLASS
ARCHITECT/ENGINEER	LICENSE NO.	ZIP	PHONE

SITE INFORMATION

SITE ADDRESS / DIRECTIONS: 2606 Bridge Blvd. SW, Albuquerque, NM 87105

ZONE ATLAS NO.: ~~Sc13-Z~~ K-11/D22

LEGAL DESCRIPTION: Tract 95A1 & 95A2, MRGCD Map No. 42

LOT SIZE: +/- 40.00 Acre

EXISTING BUILDING (S) AND USE: Yes

PROPOSED BUILDING(S): No

UPC #: 1-011-056-429297-1-02-38
1-011-056-428291-1-02-37

TYPE OF SUBMITTAL

- [ ] REPLAT
- [ ] MINOR SUBDIVISION
- [ ] CONSTRUCTION DRAWINGS
- [X] GRADING & DRAINAGE PLAN
- [ ] AS-CONSTRUCTED GRADING & DRAINAGE PLAN
- [ ] VARIANCE REQUEST
- [ ] LAND DIVISION
- [ ] TRAFFIC IMPACT ANALYSIS / TRAFFIC STUDY
- [ ] INFRASTRUCTURE LIST / DESIGN REVIEW
- [ ] SPECIAL USE PERMIT
- [ ] BARRICADING PERMIT
- [ ] BUILDING PERMIT
- [ ] INSPECTION
- [X] DRAINAGE REPORT

The issuance of a permit or a review or approval of plan specifications. computations, and shop drawings, shall not be interpreted to be a permit for, or an approval of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and shop drawings prevent any authorized COUNTY representative or COUNTY inspector from thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any COUNTY or STATE codes, ordinances, standards, or policies.

[ ] Owner [X] Agent [ ] Contractor Signature

Date 03/20/2001

RECEIVED MAR 26 2001 HYDROLOGY SECTION 10:12 am

COUNTY

BERNALILLO COUNTY USE ONLY

C/R's:

TOTAL FEE:

Receipt No.:

Received By:

County of Bernalillo

State of New Mexico

BOARD OF COUNTY COMMISSIONERS
BARBARA J SLWARD CHAIR
VICE CHAIR
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JOE BOWDICH SHERIFF
ORLANDO VIGIL TREASURER

2400 BROADWAY S E
ALBUQUERQUE NEW MEXICO 87102
PUBLIC WORKS (505) 848 1500

March 16, 2001

Shahab Biazar
Advanced Engineering and Consulting, LLC
10205 Snowflake Ct. NW
Albuquerque New Mexico 87114

RE: Grading and Drainage Plan for Alex Paint & Body (L11-D22) (PWDN 10024)
Dated February 18, 2001

Dear Mr. Biazar:

I have reviewed the referenced drainage plan received February 26, 2001 and forward the following comments. These comments are a compilation of comments from the City, Bernalillo County, and AMAFCA.

1. The size of the pond needs to include the displaced volume of the building in the flood plain.

If you have any questions please contact me at 924-3982.

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator

C: Lynn Mazur, AMAFCA
Brian Kent, Bernalillo County
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Alex Paint & Body

ZONE ATLAS/DRNG. FILE #: S-13 / D22

DRB #:

EPC #:

WORK ORDER #:

LEGAL DESCRIPTION: Tract 95A1 & 95A2, MRGCD MAP NO 42

CITY ADDRESS: 2606 Bridge Blvd., SW, Alb., NM 87105

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC

CONTACT: Shahab Biazar

ADDRESS: 10205 Snowflake Ct. NW Alb., NM 87114

PHONE: (505) 899-5570

OWNER:

CONTACT:

ADDRESS:

PHONE:

ARCHITECT:

CONTACT:

ADDRESS:

PHONE:

SURVEYOR:

CONTACT:

ADDRESS:

PHONE:

CONTRACTOR:

CONTACT:

ADDRESS:

PHONE:

TYPE OF SUBMITTAL:

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

CHECK TYPE OF APPROVAL SOUGHT:

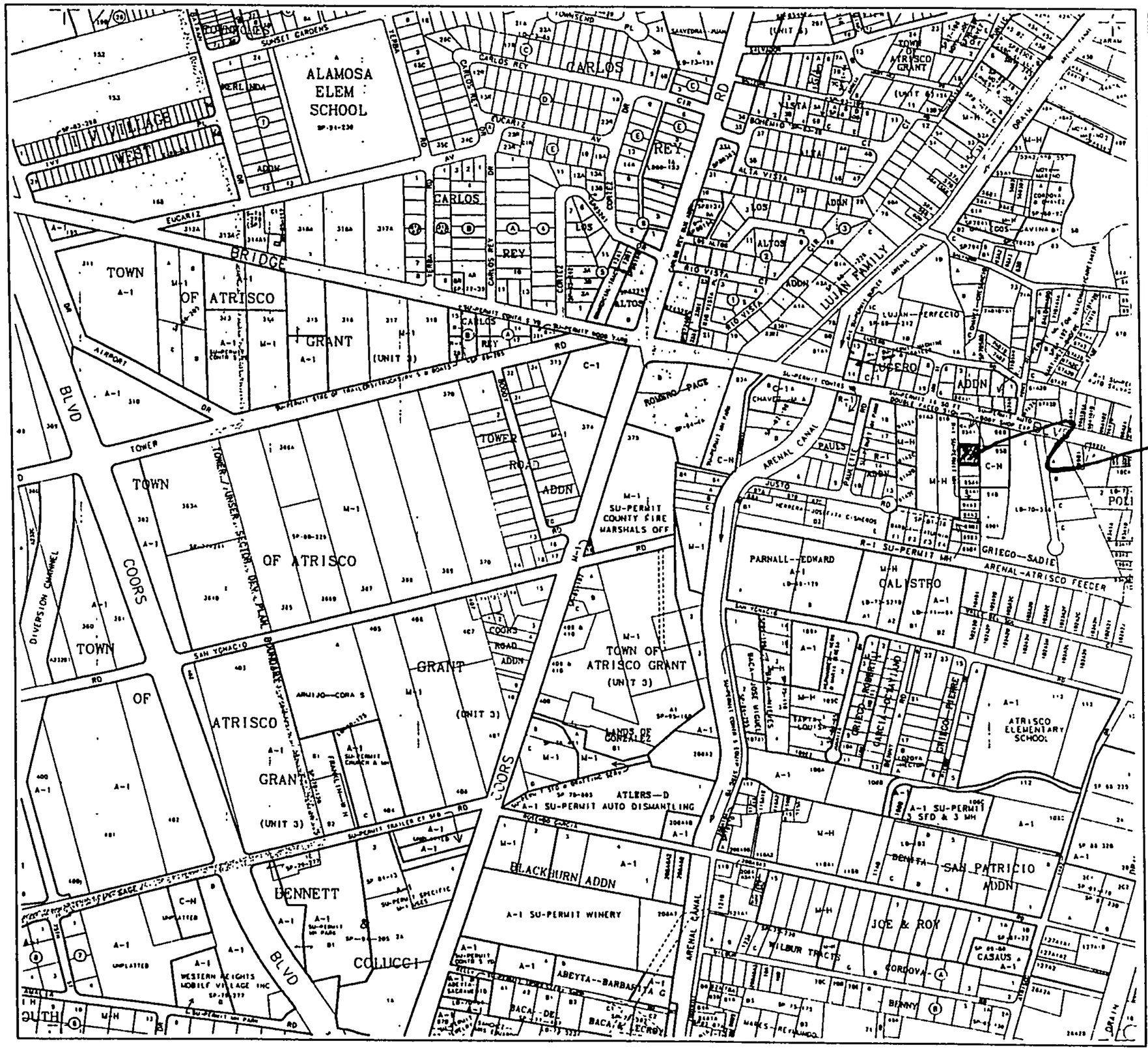
- ____ SKETCH PLAN APPROVAL
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY APPROVAL
- X GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ S. A. D. DRAINAGE REPORT
- X DRAINAGE REQUIREMENTS
- ____ OTHER

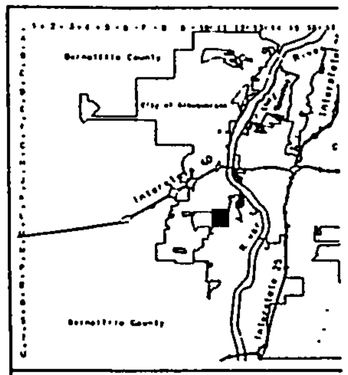
PRE-DESIGN MEETING:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

DATE SUBMITTED: 03 / 20 / 01

BY: *SHAHAB BIAZAR*





Location map

SITE

N

SCALE IN FEET

250 0 500

1" = 500'

BERNALILLO COUNTY STATE OF NEW MEXICO

LEGAL DESCRIPTION

T10N

R2E

SEC 26

UNIFORM PROPERTY COD

1-011-056

L-11-Z

Bernalillo Cou

Map Amended by AGIS through Octob

County of Bernalillo

State of New Mexico

BOARD OF COUNTY COMMISSIONERS
BARBARA J. SEWARD, CHAIR
DISTRICT 4
TOM RUTHERFORD, VICE CHAIR
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IRA ROBINSON, PROBATE JUDGE
JOE BOWDICH, SHERIFF
ORLANDO VIGIL, TREASURER

March 16, 2001

Shahab Biazar
Advanced Engineering and Consulting, LLC
10205 Snowflake Ct. NW
Albuquerque New Mexico 87114

RE: Grading and Drainage Plan for Alex Paint & Body (L11-D22) (PWDN 10024)
Dated February 18, 2001

Dear Mr. Biazar:

I have reviewed the referenced drainage plan received February 26, 2001 and forward the following comments. These comments are a compilation of comments from the City, Bernalillo County, and AMAFCA.

1. The size of the pond needs to include the displaced volume of the building in the flood plain.

If you have any questions please contact me at 924-3982.

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator

C: Lynn Mazur, AMAFCA
Brian Kent, Bernalillo County
File

To: Brian Kent, BC PWD
cc: Brad Catanach, BC PWD, Carlos Montoya, City/County Floodplain Admin
From: Lynn Mazur, AMAFCA
Date: March 1, 2001
Re: AMAFCA Comments for Bernalillo County PWD Submittals

Floodplain Property

PWDN ?, Oasis Restaurant, Engineer: Brasher& Lorenz, ZAP E-17

1. AMAFCA objects to a private party maintaining a facility that carries public water in a floodplain (Borealis Arroyo).
2. What is the "channel cover"? Cannot approve the G&D plan until plans for the arroyo are provided.

Floodplain Property

PWDN 10025, Lot 30, Blk 17, Tr 1, Unit 3, NAA, ZAP B-20

1. This lot is within the City limits. AMAFCA does not take easements on City lots in NAA.
2. AMAFCA notes that the future developed flow in the arroyo at the Barstow crossing is 924 cfs (NAA Master Drainage Plan for COA PWD by RTI). The engineer used a slightly higher flow rate, but probably won't affect EGL much.

PWDN ?, Alex Paint & Body, Engineer: Advanced Engr & Consulting, ZAP L-11

10024

1. No objection.

Re: Comments on PWDN 97192, Lot 1, Blk 3, Tr 3, Unit 2, NAA, ZAP D-21, Engineer: Gary Eyster

We received calculations for Inlet #51. We have no further comments. Awaiting County approval of division of easement.

PWDN 171 make sure — approve.

March 15, 2001

Shahab Biazar
Advanced Engineering and Consulting, LLC
10205 Snowflake Ct. NW
Albuquerque New Mexico 87114

RE: Grading and Drainage Plan for Alex Paint & Body (L11-D22) (PWDN 10024)
Dated February 18, 2001

Dear Mr. Biazar:

The above referenced plan received February 26, 2001 is approved for building permit. Upon completion of the project the engineer will certify the project.

If you have any questions please contact me at 924-3982.

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator

C: Lynn Mazur, AMAFCA
Brian Kent, Bernalillo County
File

CARLOS MONTOYA

BERNALILLO COUNTY

PWEP-10213

PWD SUBMITTAL

Use for all PWD applications EXCEPT Street Excavation

[X] NEW SUBMITTAL

[ ] RESUBMITTAL

[ ] FINAL SIGNOFF

TODAY'S DATE: 02/21/2001

CASE NO: PWDN- 10024

OWNER

OWNER	Alex Paint & Body	PHONE	(505) 242-2477
MAILING ADDRESS	2606 Bridge Blvd. SW	CITY	Alb. ZIP 87105

AGENT

AGENT / CONTRACTOR	Advanced Engineering and Consulting, LLC	PHONE	(505) 899-5570
MAILING ADDRESS	10205 Snowflake Ct., NW	CITY	Albuquerque ZIP NM 87114
STATE LICENSE NO.	EXP DATE VOLUME	CLASS	
ARCHITECT/ENGINEER	LICENSE NO.	ZIP	PHONE

SITE INFORMATION

SITE ADDRESS / DIRECTIONS: 2606 Bridge Blvd. SW, Albuquerque, NM 87105

ZONE: L-11

ATLAS NO.: ~~B-13-Z~~ L11/D022

LEGAL DESCRIPTION: Tract 95A1 & 95A2, MRGCD Map No. 42

LOT SIZE: ~~+/- 40.00 Acre~~

EXISTING BUILDING (S) AND USE: Yes

PROPOSED BUILDING(S): No

UPC #: 1-011-056-429297-1-02-38
1-011-056-428291-1-02-37

TYPE OF SUBMITTAL

- [ ] REPLAT
- [ ] MINOR SUBDIVISION
- [ ] CONSTRUCTION DRAWINGS
- [X] GRADING & DRAINAGE PLAN
- [ ] AS-CONSTRUCTED GRADING & DRAINAGE PLAN
- [ ] VARIANCE REQUEST
- [ ] LAND DIVISION
- [ ] TRAFFIC IMPACT ANALYSIS / TRAFFIC STUDY
- [ ] INFRASTRUCTURE LIST / DESIGN REVIEW
- [ ] SPECIAL USE PERMIT
- [ ] BARRICADING PERMIT
- [ ] BUILDING PERMIT
- [ ] INSPECTION
- [X] DRAINAGE REPORT

RECEIVED FEB 26 2001 HYDROLOGY SECTION

The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings, shall not be interpreted to be a permit for, or an approval of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and shop drawings prevent any authorized COUNTY representative or COUNTY inspector from thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any COUNTY or STATE codes, ordinances, standards or policies.

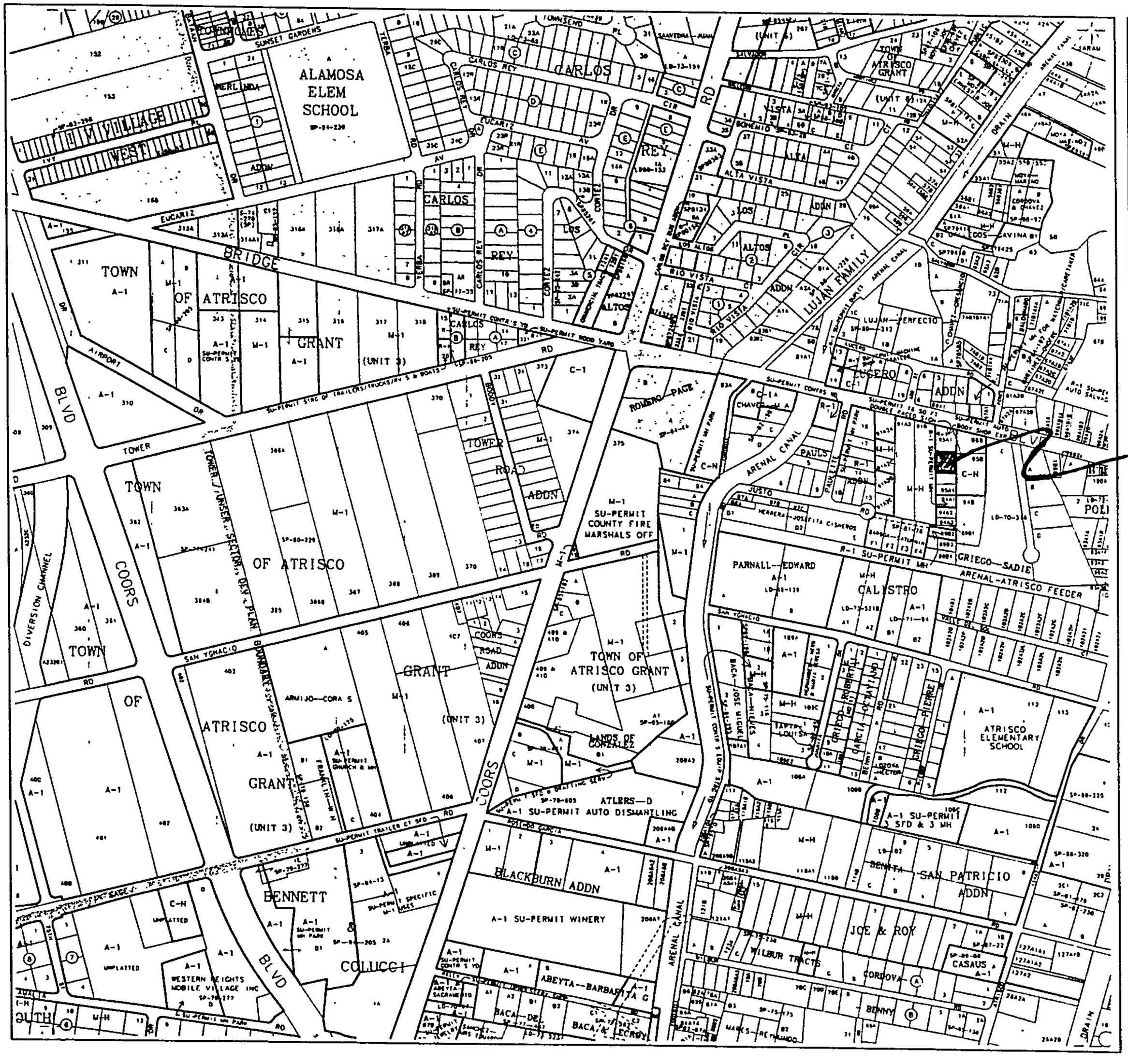
[ ] Owner [X] Agent [ ] Contractor

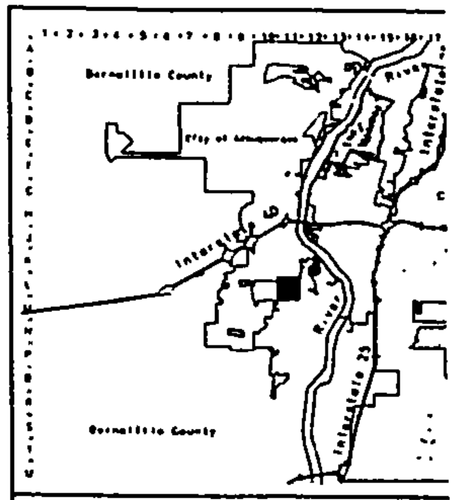
Signature: _____ Date: 02/21/2001

COUNTY

BERNALILLO COUNTY USE ONLY

C/R's:		TOTAL FEE:	
		Receipt No.:	
		Received By:	





Location map

SITE

N

SCALE IN FEET

250 0 500

1" = 500'

LEGAL DESCRIPTION

TION

R2E

SEC 28

UNIFORM PROPERTY COD

1-011-058

L-11-Z

Bernalillo Cou

Map Amended by AGIS through Outst

DRAINAGE REPORT
FOR

Alex Paint & Body

Prepared by:

ADVANCED
ENGINEERING
and CONSULTING, LLC

10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

Prepared For:

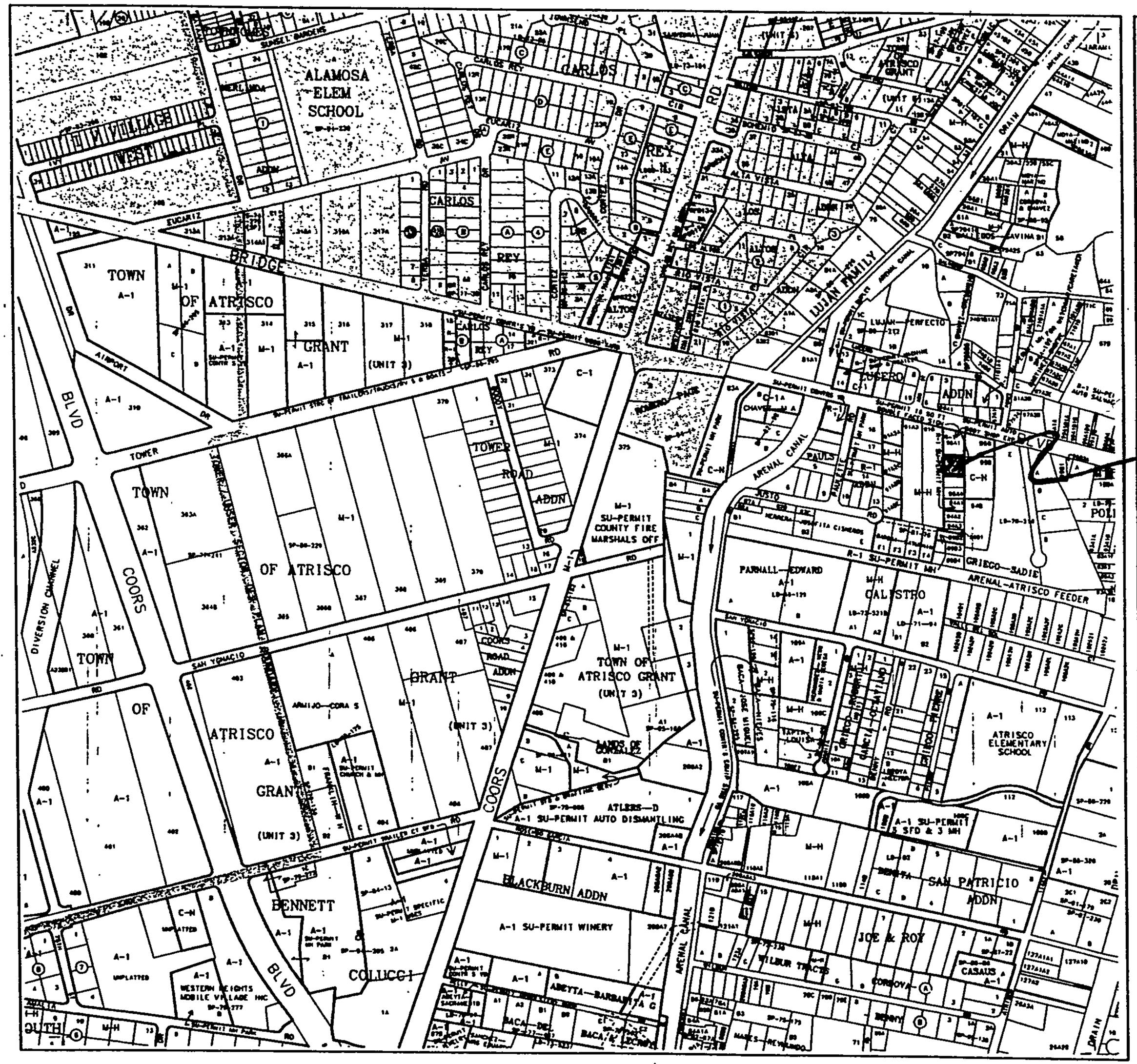
Alex Paint & Body
2606 Bridge Boulevard, SW
Albuquerque, New Mexico 87105

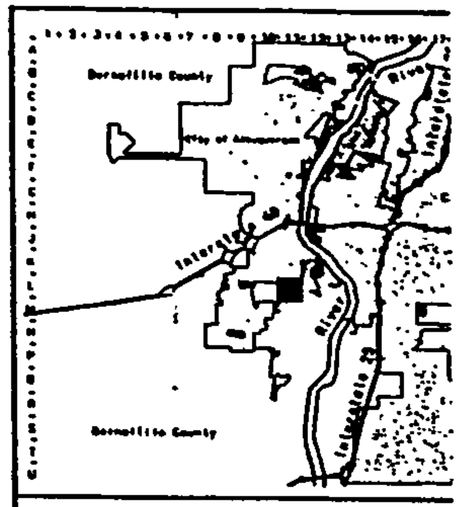
February, 2001

RECEIVED
FEB 26 2001
HYDROLOGY SECTION

SHAHAB BIAZAR
NEW MEXICO
13479
REGISTERED PROFESSIONAL ENGINEER
2-18-01

Shahab Biazar
PE NO. 13479





Location map

SCALE IN FEET

250 0 500

1" = 500'

LEGAL DESCRIPTION

T10N

R2E

SEC 36

UNIFORM PROPERTY COD

1-011-056

L-11-Z

Bernalillo Cou

Map Amended by AGIS through Octob

Location

Tract 95A1 and 95A2 , 10 MRGCD map 42, is located at 2606 Bridge Boulevard SW. See attached Vicinity Map L-11-Z for the location of the site.

Purpose

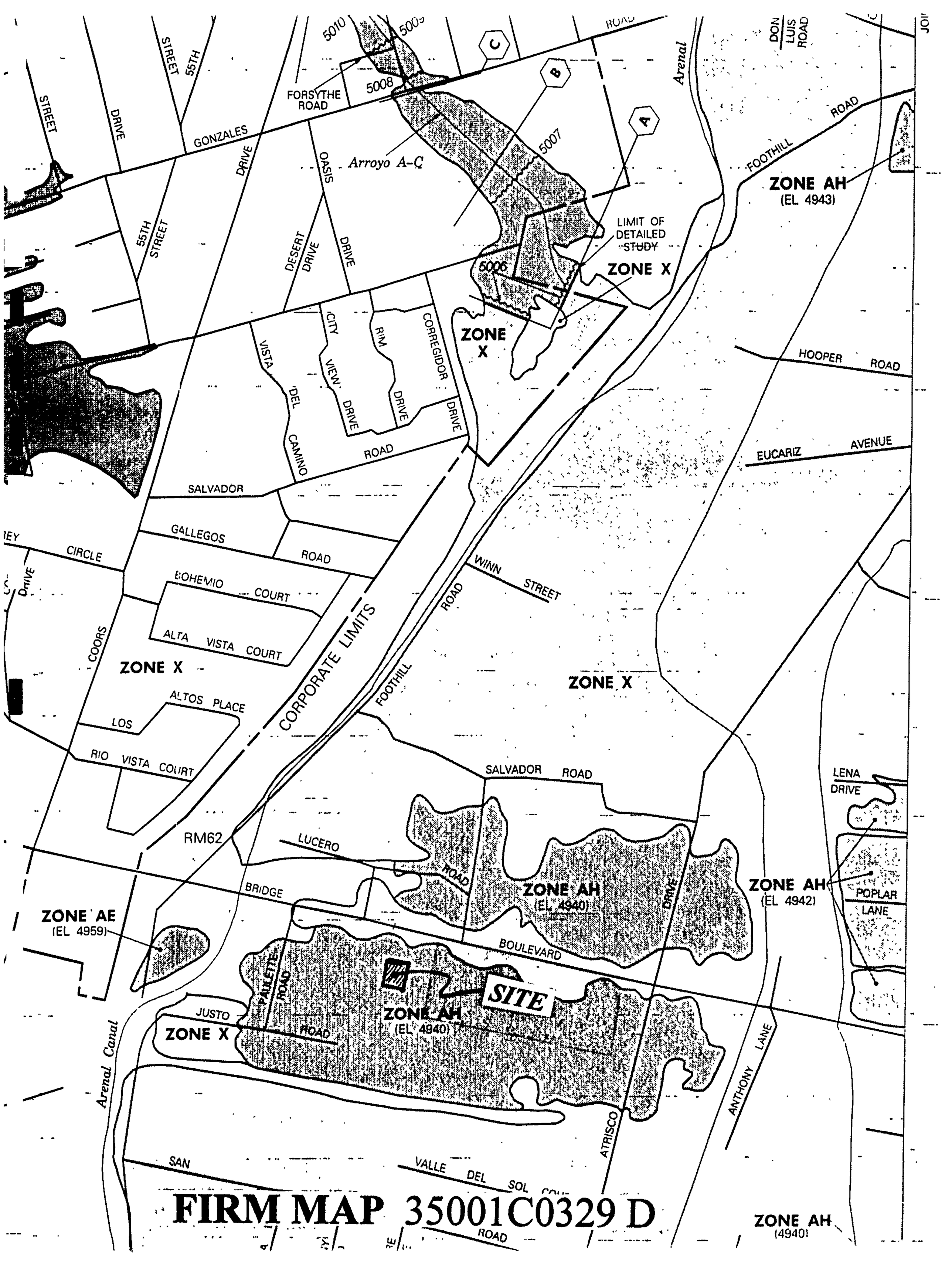
The owners are required to receive an approval on the grading and drainage plan to meet their Special Use Permit requirements. The site does have an existing building. There owners are not proposing to build any additional building on this site.

Existing Drainage Conditions

The site is fairly flat and the runoff just ponds on site. There are no offsite runoff which enters this Tract. There are no existing ponds on site for retention purposes. Under the the historical conditions (A=100%) the site generated a runoff of 0.71 cfs. The site falls within a 100-year flood plain Zone AH with an elevation of ±4940'. The existing finished floor elevation of the building is at 4940.10'.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns on site will remain the same. No new building is proposed. A new retention pond will be built to retain the entire runoff from the site. The pond will be designed for a 100-year/10-day storm under the developed conditions. The site will be



FIRM MAP 35001C0329 D

graded to convey the runoff to the proposed retention pond. Under the proposed conditions a ponding volume of 2,953.91 cf will be required. The proposed pond will have a volume of 3,025.36 cf. Under the proposed conditions the site generates a runoff of 2.03 cfs.

Calculations

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, revised January 1993, was used for runoff calculations. See this report for Summary Table for runoff results. See also this report for AHYMO input and output files for runoff and **ponding calculations.**

RUNOFF CALCULATIONS

The site is @ Zone 1

DEPTH (INCHES) @ 100-YEAR STORM

P_{60} = 1.87 inches

P_{360} = 2.20 inches

P_{1440} = 2.66 inches

DEPTH (INCHES) @ 10-YEAR STORM

P_{60} = 1.87 x 0.667
= 1.25 inches

P_{360} = 1.47

P_{1440} = 1.77

See the summary output from AHYMO calculations.

Also see the following summary tables.

RUNOFF CALCULATION RESULTS

BASIN	AREA (SF)	AREA (AC)	AREA (MI^2)
ONSITE	13,503.60	0.3100	0.000484

PROPOSED

BASIN	Q-100 CFS	Q-10 CFS	TREATMENT A, B, C, D
ONSITE	2.03	1.25	0%, 25%, 5%, 70%

HISTORICAL

BASIN	Q-100 CFS	Q-10 CFS	TREATMENT A, B, C, D
ONSITE	0.71	0.13	100%, 0%, 0%, 0%

VOLUME CALCULATIONS FOR 10-DAY STORM

(UNDER PROPOSED CONDITIONS)

DRAINAGE BASINS

SUB-BASIN	AREA (SF)	AREA (AC-FT)	AREA (MI^2)
BASIN	13503.60	0.31000	0.000484

$$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$$

V-360 = E (AA + AB + AC + AD)

V-10 Day = V-360 + AD (P-10 Day - P-360) / 12 in/ft

EA = 0.44
EB = 0.67
EC = 0.99
ED = 1.97

AA = 0.00%
AB = 25.00%
AC = 5.00%
AD = 70.00%

P-60 = 1.87
P-360 = 2.20
P-1440 = 2.66
P-10 Day = 3.67

E =	**1.5960**	**IN**
V-360 =	**0.0412**	**AC-FT**
AD =	**0.2170**	**AC**
V-10 Day =	**0.0678**	**AC-FT**
V-10 DAY =	**2,953.91**	**CF**

AHYMO INPUT FILE

```
*
* ZONE 1
*
*****************************************************************
*       100-YEAR,  6-HR STORM (UNDER HISTORICAL CONDITIONS)      *
*****************************************************************
START
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
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                        RAIN DELAY=2.66 IN DT=0.03333 HR
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                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
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*        0-YEAR,  6-HR STORM (UNDER HISTORICAL CONDITIONS)       *
*****************************************************************
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.25 IN RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN DT=0.03333 HR
COMPUTE NM HYD          ID=1 HYD NO=110.0 AREA=0.000848 SQ MI
                        PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00
                        TP=0.1333 HR MASS RAINFALL=-1
*****************************************************************
*       100-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)        *
*****************************************************************
START
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                        RAIN DELAY=2.66 IN DT=0.03333 HR
COMPUTE NM HYD          ID=1 HYD NO=101.0 AREA=0.000848 SQ MI
                        PER A=0.00 PER B=25.00 PER C=5.00 PER D=70.00
                        TP=0.1333 HR MASS RAINFALL=-1
*****************************************************************
*        10-YEAR,  6-HR STORM (UNDER PROPOSED CONDITIONS)        *
*****************************************************************
START                   TIME=0.0
RAINFALL                TYPE=1 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.25 IN RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN DT=0.03333 HR
COMPUTE NM HYD          ID=1 HYD NO=111.0 AREA=0.000848 SQ MI
                        PER A=0.00 PER B=25.00 PER C=5.00 PER D=70.00
                        TP=0.1333 HR MASS RAINFALL=-1
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FINISH
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AHYMO SUMMARY OUTPUT FILE

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02d RUN DATE (MON/DAY/YR) =02/05/2001
INPUT FILE = 2022 USER NO.= AHYMO-I-9702c01000R31-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION
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START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 1.470
COMPUTE NM HYD	110.00	-	1	.00085	.13	.004	.08264	1.533	.248	PER IMP= .00
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 2.200
COMPUTE NM HYD	101.00	-	1	.00085	2.03	.072	1.59000	1.500	3.735	PER IMP= 70.00
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 1.470
COMPUTE NM HYD	111.00	-	1	.00085	1.25	.043	.94238	1.500	2.294	PER IMP= 70.00
FINISH										