

***** DUPLICATE COPY OF APPLICATION *****

NUMBER: 0304673 DATE: 04/03/03 TIME: 16:08 TYPE: NEW BUILDING

CONSTRUCTION ADDRESS - NUMBER: 1717 STREET: GIRARD
ST DESIG: BD QUAD: SE HALF NO: SPACE NO: CITY: ALBUQUERQUE
STATE: NM ZIP CODE: LEGAL DESC - LOT NO: 5 BLOCK NUMBER: 5A
STREET SEQ NO: DASZ: 8061 SUBDIVISION: LOMA LINDA ADDITION
TRACT: 120 PARCEL: UNIT: CITY COUNCIL DIST: LAND USE CODE: 1222
UNIFORM PROPERTY CODE: CITY ZONE: R-2 ZONING MAP: L-16

OWNER NAME: PHILLIP MARBERRY PHONE: 505-869-7903

NUMBER: 0 STREET:
ST DESIG: QUAD: HALF NO: SUITE NO:
CITY: STATE: ZIP CODE:

ARCH/ENG/DESIGNER: SIEVERT PHONE: 505-000-0000

NUMBER: 0 STREET:
ST DESIG: QUAD: HALF NO: SUITE NO:
CITY: STATE: ZIP CODE:

CONTRACTOR NAME: MARBERRY CONST. PHONE: 505-869-7903

NUMBER: 2170 STREET: CAMINO DE CHAVEZ
ST DESIG: QUAD: HALF NO: SUITE NO:
CITY: ALBUQUERQUE STATE: NM ZIP CODE: 87068

STATE TAX # 02295486004 CTY TAX # CONTR LIC # 56622

OWNER EST VALUATION :\$155000 NO OF STORIES : 1

PLAN CHECK VALUATION:\$0 NO OF APT BUILDINGS : 0

LOT ACREAGE : .00 NO OF APT UNITS : 0

SQUARE FOOTAGE : 3100 NO OF MOTEL UNITS : 0

OWNERSHIP: PRIVATE PRINTED BY: KMS UTB ACCOUNT NBR:

DESCRIPTION OF WORK:

PLAN CHECK

USE OF BLDG: FOURPLEX OCCUPANCY GROUP: TYPE OF CONST:

			DATE		
			ISSUED	SC	BY
1	APPLICATION PLAN CHECK FEE	566.91	03/31/03	1	MSM
24	FLOOD PLAIN ORDINANCE FEE	31.00	03/31/03	1	MSM
25	ZONING PLAN CHECK FEE	20.00	03/31/03	1	MSM

TOTAL =====> \$ 617.91



JJK Group, Inc.

Consulting Structural Engineers
12836 Lomas Blvd. NE, Suite B
Albuquerque, New Mexico 87112
505-296-5706 Fax 505-296-1672
jjkgroup@flash.net
www.jjkgroup.com

L=76/D 34A

1/4

The structural calculations performed on the following pages represent the clients request for professional services involving the DESIGN of structural elements consisting OF A A 4'-8" (MAX) MASONRY RETAINING WALL FROM INFORMATION PROVIDED TO US BY PHIL MARBERRY CONSTRUCTION.

The client recognizes that the design professional's liability is limited to only the structural elements designed in this calculation set, and therefore, NO responsibility is warranted for any field construction errors, changes in the specified material, adequacy of other structural elements not part of this calculation set or any different loading conditions not part of this calculation set.

Please note: (1) NO construction observation will be performed for this job.
(2) NO other structural analysis or design was performed that is not part of the work described above.

STRUCTURAL CALCULATIONS FOR

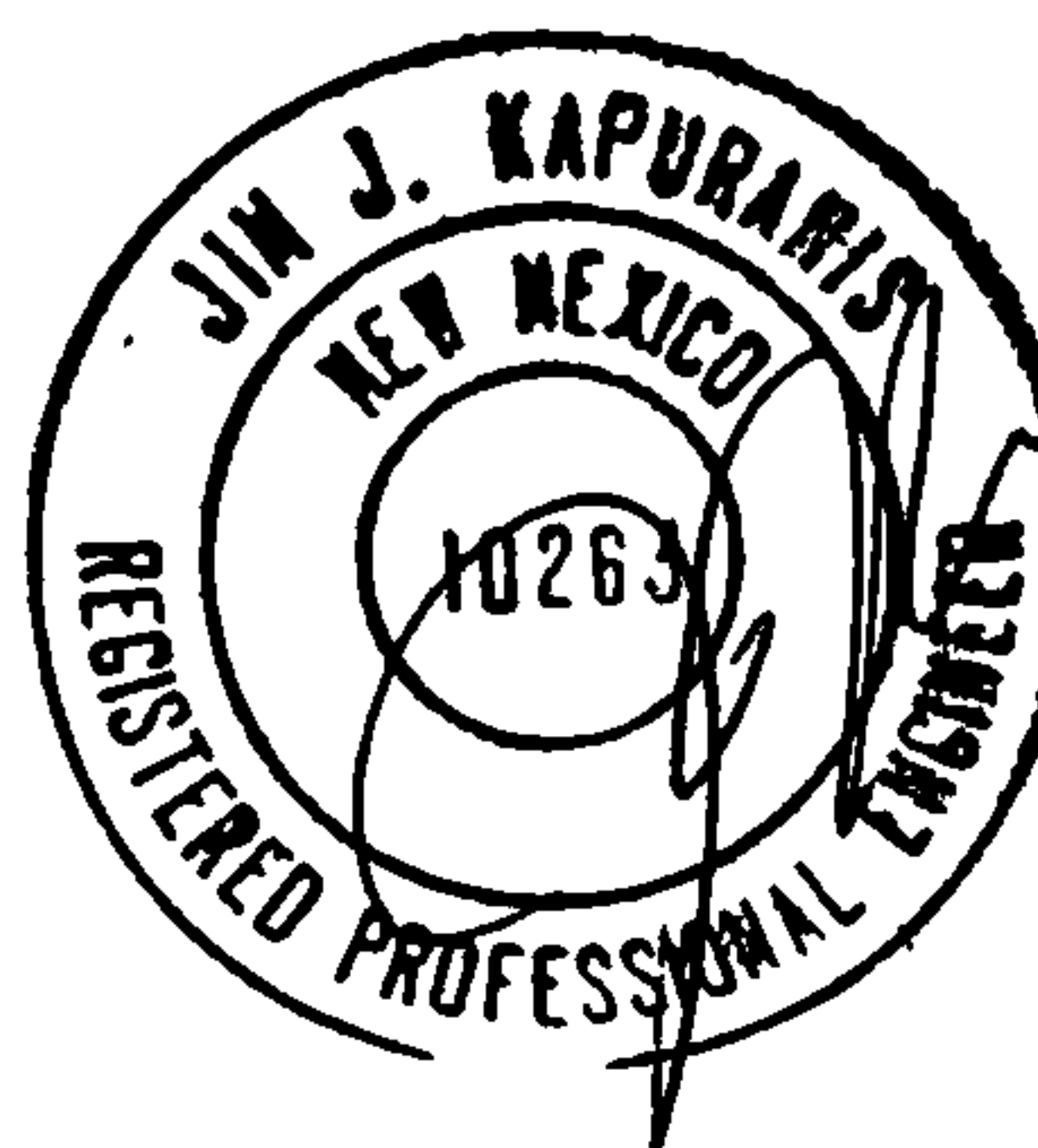
<u>CLIENTS</u>	NAME :	PHIL MARBERRY
	COMPANY :	MARBERRY CONSTRUCTION
	CITY, STATE, ZIP :	BOSQUE, NM
<u>JOB'S</u>	TITLE :	Structural analysis/design as mentioned above.
	ADDRESS :	LOT 5 AND 6 LOMA LINDA
	CITY, STATE, ZIP :	Albuquerque, NM

JJK GROUP, INC.
12836 LOMAS BLVD. NE SUITE B
ALBUQUERQUE, NM 87112

JJK JOB NUMBER :	JIM J. KAPURANIS P.E.
DATE :	47-2002
PAGES :	3/8/02
	4 (WITH COVER SHEET)

NO ANALYSIS OR DESIGN OF ANY OTHER STRUCTURAL COMPONENT WAS DONE BY JJK GROUP, INC.

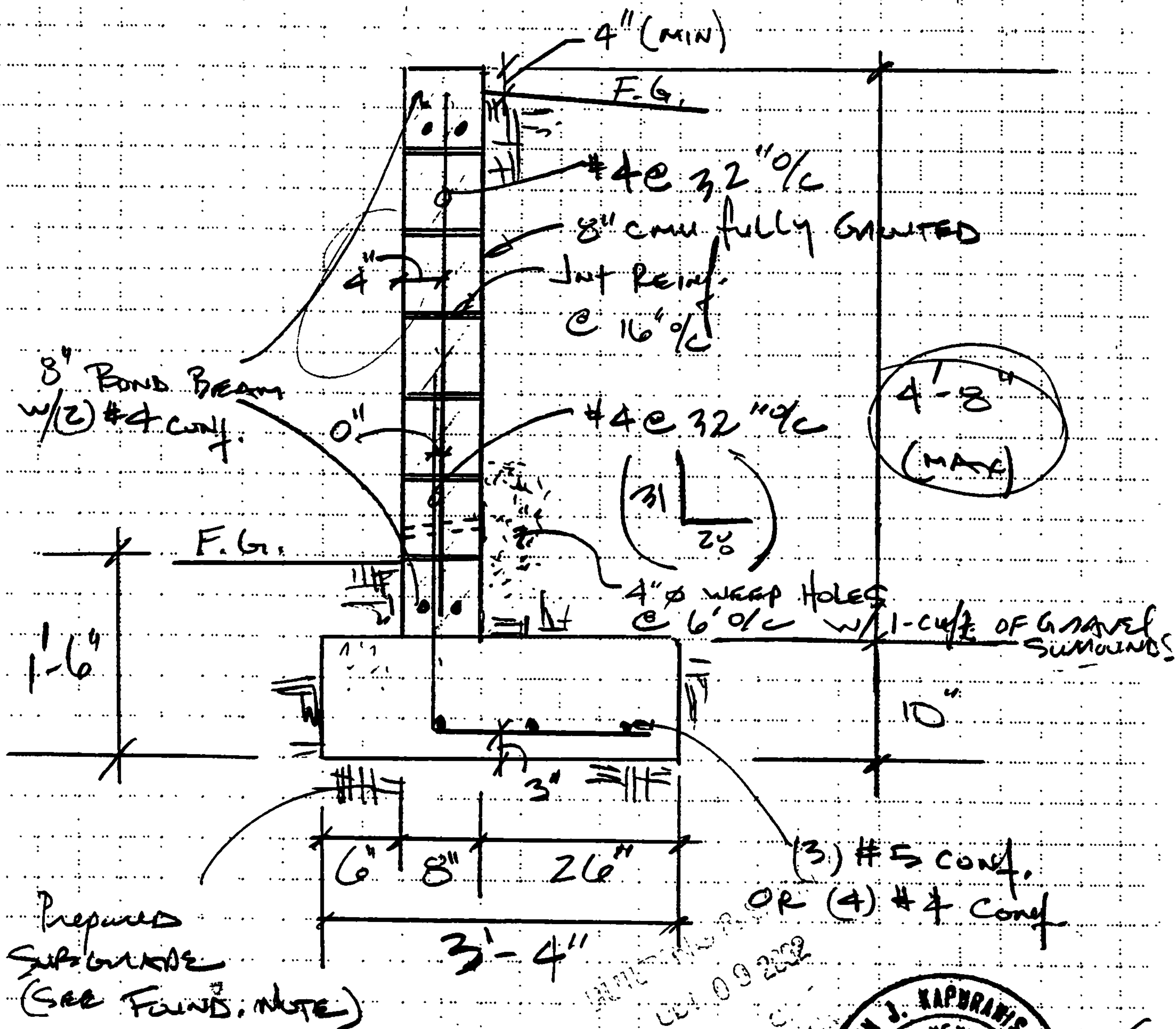
634.00 -
544.26



3/8/02
pages 1-4

APPROVED FOR
03 03 2002

- ① Existing wall
- ② Garden wall



THE DESIGN WAS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF AND THEREFORE THE SUBGRADE MUST BE PREPARED FOR THIS MINIMUM ALLOWABLE SOIL PRESSURE BY OVEREXCAVATING (DETERMINED BY A SOILS INVESTIGATION) AND RECOMPACTING TO 95% DENSITY.

NO SOILS REPORT WAS PROVIDED TO US DURING JJK GROUP, INC DESIGN OF THIS WALL AND FOOTING. AS A RESULT IT IS NOT KNOWN WHETHER OR NOT SUBSURFACE SOIL CONDITIONS ARE STABLE WHICH MAY IMPACT THE PERFORMANCE OF THIS DESIGN. THEREFORE, JJK GROUP, INC. CANNOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE FOUNDATION BASED ON HIDDEN SOIL CONDITIONS NOT DISCOVERABLE WITHOUT A SOILS INVESTIGATION.



Cantilevered Retaining Wall Design

Description

Criteria

Retained Height	=	4.33 ft
Wall height above soil	=	0.00 ft
Slope Behind Wall	=	0.00 : 1
Height of Soil over Toe	=	6.00 in
Soil Density	=	110.00 pcf
Wind on Stem	=	0.0 psf

Soil Data

Allow Soil Bearing	=	1,500.0 psf
Equivalent Fluid Pressure Method		
Heel Active Pressure	=	35.0
Toe Active Pressure	=	35.0
Passive Pressure	=	300.0
Water height over heel	=	0.0 ft
Footing Soil Friction	=	0.300
Soil height to ignore for passive pressure	=	0.00 in

Footing Strengths & Dimensions

f_c	=	3,000 psi	F_y	=	60,000 psi
Min. As %	=	0.0014			
Toe Width	=	0.50 ft			
Heel Width	=	2.83			
Total Footing Width	=	3.33			
Footing Thickness	=	15.00 in			
Key Width	=	0.00 in			
Key Depth	=	0.00 in			
Key Distance from Toe	=	0.00 ft			
Cover @ Top	=	3.00 in	@ Btm.	=	3.00 in

Design Summary

Total Bearing Load	=	2,048 lbs
...resultant ecc.	=	4.23 in
Soil Pressure @ Toe	=	1,005 psf OK
Soil Pressure @ Heel	=	224 psf OK
Allowable	=	1,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	1,406 psf
ACI Factored @ Heel	=	314 psf
Footing Shear @ Toe	=	3.6 psi OK
Footing Shear @ Heel	=	14.6 psi OK
Allowable	=	93.1 psi
Wall Stability Ratios		
Overtuning	=	3.74 OK
Sliding	=	1.97 OK
Sliding Calcs (Vertical Component NOT Used)		
Lateral Sliding Force	=	491.3 lbs
less 100% Passive Force	=	459.4 lbs
less 100% Friction Force	=	614.4 lbs
Added Force Req'd	=	0.0 lbs OK
....for 1.5 : 1 Stability	=	0.0 lbs OK

Stem Construction

Top Stem

Design height	ft =	0.00
Wall Material Above "Ht"	=	Masonry
Thickness	=	8.00
Rebar Size	=	# 4
Rebar Spacing	=	32.00
Rebar Placed at	=	Center

Design Data

$f_b/FB + f_a/F_a$	=	0.859
Total Force @ Section	lbs =	323.7
Moment....Actual	ft-# =	472.8
Moment....Allowable	=	550.7
Shear....Actual	psi =	7.7
Shear....Allowable	psi =	25.8
Bar Develop ABOVE Ht.	in =	24.00
Bar Lap/Hook BELOW Ht.	in =	6.93
Wall Weight	=	84.0
Rebar Depth 'd'	in =	3.81

Masonry Data

f_m	psi =	1,500
F_s	psi =	24,000
Solid Grouting	=	Yes
Special Inspection	=	No
Modular Ratio 'n'	=	25.78
Short Term Factor	=	1.330
Equiv. Solid Thick.	in =	7.60

Masonry Block Type = Normal Weight

Concrete Data

f_c	psi =
F_y	psi =

Other Acceptable Sizes & Spacings

Toe: Not req'd, $M_u < S * F_r$
Heel: Not req'd, $M_u < S * F_r$
Key: No key defined

Footing Design Results

	Toe	Heel
Factored Pressure	= 1,406	314 psf
M_u : Upward	= 296	0 ft-#
M_u : Downward	= 75	0 ft-#
M_u : Design	= 221	804 ft-#
Actual 1-Way Shear	= 3.57	14.59 psi
Allow 1-Way Shear	= 93.11	93.11 psi
Toe Reinforcing	=	None Spec'd
Heel Reinforcing	=	None Spec'd
Key Reinforcing	=	None Spec'd

03/13/2002

JJK Group, Inc
12836 Lomas Blvd NE Suite B
Albuquerque, New Mexico 87112

Title :
Dsgnr:
Description :

Job #
Date: 8:45AM, 8 MAR 02

4/4

Scope :

Rev 510303
User: KW-060818, Ver 5.1.3, 22-Jun-1999, Win32
(c) 1983-99 ENERCALC

Cantilevered Retaining Wall Design

Description

Summary of Overturning & Resisting Forces & Moments

Item	OVERTURNING.....				RESISTING.....				
	Force lbs	Distance ft	Moment ft-#		Force lbs	Distance ft	Moment ft-#		
Heel Active Pressure	=	544.9	1.86	1,013.5	Soil Over Heel	=	1,031.8	2.25	2,321.4
Toe Active Pressure	=	-53.6	0.58	-31.3	Sloped Soil Over Heel	=			
Surcharge Over Toe	=				Surcharge Over Heel	=			
Adjacent Footing Load	=				Adjacent Footing Load	=			
Added Lateral Load	=				Axial Dead Load on Stem	=		0.00	
Load @ Stem Above Soil	=				Soil Over Toe	=	27.5	0.25	6.9
Seismic Load	=				Surcharge Over Toe	=			
					Stem Weight(s)	=	363.7	0.83	303.1
					Earth @ Stem Transitions	=			
					Footing Weight	=	624.9	1.67	1,041.5
					Key Weight	=			
					Vert. Component	=			

UET 0 9 2002

McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: Carlos Montoya P.E.
COA Hydrology

DATE: 2-17-02
PROJ. NO.: _____

RE: MARBERRY DEV. FILE NO. L16/D34A

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via delivery the following items:

COPIES	DATE	DESCRIPTION
1	2-17-02	Revised Grading & Drainage Plan
1	"	Response letter to comments w/ attachments
1		Drainage Info Sheet

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment
☐ Other _____

REMARKS:

COPY TO: JL

SIGNED: Jackie
Jackie S. McDowell, P.E.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 8, 2002

Jackie McDowell, PE
McDowell Engineering, Inc.
7820 Beverly Hills Ave. NE
Albuquerque, NM 87122

**Re: Grading and Drainage Plan for Marberry Development Lots 5 & 6, Loma Linda
Engineer's Stamp Dated 1-2-02, (L16/D34A)**

Dear Ms. McDowell,

Based on the information contained in your submittal dated 1-03-02, the above referenced site cannot be approved for Building Permit until the following comments are addressed:

- Please show the dimensions of the "opening in wall" called out on the plan.
- Please quantify off-site flows from Lot 4.
- There is an existing drainage easement north and south of all lots indicated on the plan, please identify on plan and submit drainage easement agreement.

If you have any questions about my comments, you can contact me at 924-3982.

Sincerely,

Carlos Montoya, PE
City Floodplain Administrator, PWD
Development and Building Services

c: Terri Martin, Hydrology
File (2)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 20, 2001

Jackie S. McDowell, P.E.
McDowell Engineering, Inc.
7820 Beverly Hills Ave. NE
Albuquerque, NM 87122

**RE: Grading and Drainage Plan for Marberry Development Lots 5 & 6, Loma Linda
(L-16/ D34A), Engineer's stamp dated July 26, 2001. (L-16)**

Dear Ms. McDowell,

Based on the information provided in your July 31, 2001 submittal, the above-referenced project is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

- As a condition of approval, please show the dimensions of the "opening in wall" called out on the plan, per our phone conversation today.

Prior to release of the Certificate of Occupancy, an Engineer's Certification of the grading and drainage plan, per the DPM checklist, will be required.

If you have any questions, please call me at 924-3988.

Sincerely,

Nancy Musinski, P.E.
Hydrology/Utility Development
City of Albuquerque Public Works

Cc: Terri Martin, Hydrology
file

~~828-2430~~

821-4857

McDowell Engineering, Inc.

Jackie Sedillo McDowell, P.E.
Civil Engineering Consultant

February 17, 2002

Mr. Carlos Montoya, PE
City Floodplain Administrator, PWD
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

**RE: MARBERRY DEVELOPMENT LOTS 5 & 6, LOMA LINDA
SUBDIVISION FILE NO. L16/D34A**

Dear Mr. Montoya:

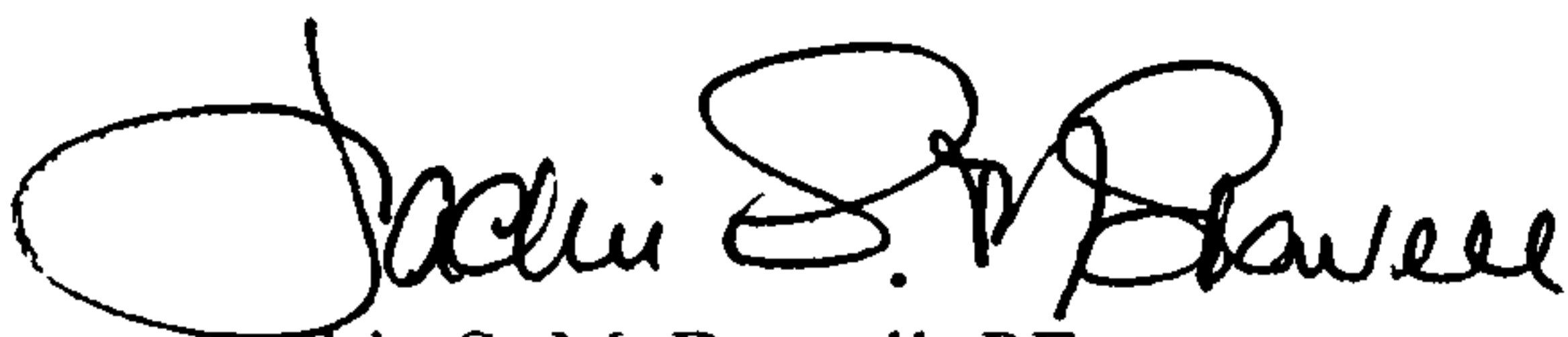
We received your comments dated January 8, 2002 and offer the following response and modifications in the order listed.

- The area and capacity of the turned blocks have been called out on the plan.
- The offsite flow for Lot 4 is 0.77 cfs. Calculations are attached.
- The existing 10' drainage easement along the west property line for the north and south lots has been indicated on the plan. A copy of the portion of the plat showing the easement is attached.

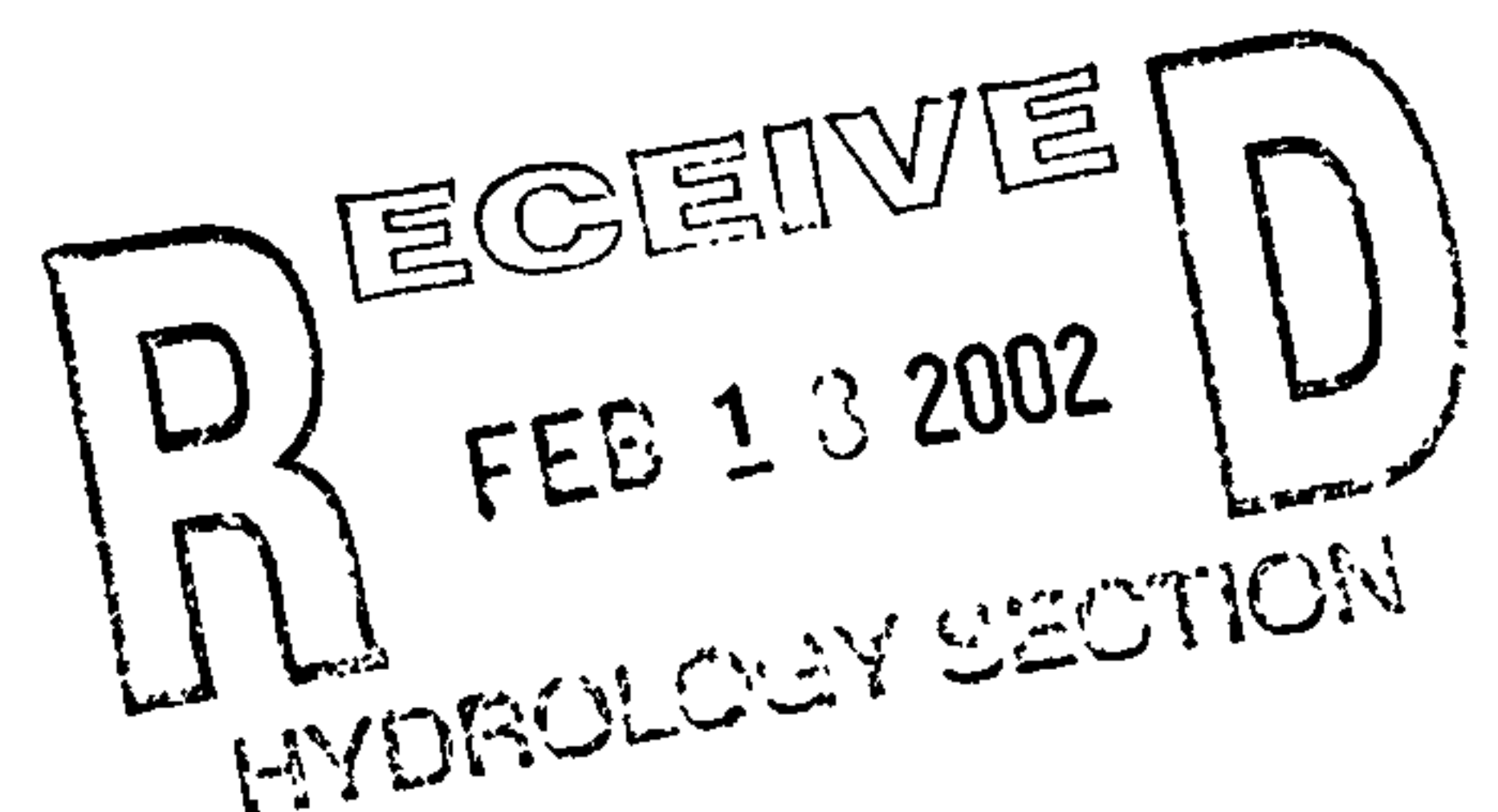
Your timely approval of this submittal is appreciated.

Sincerely,

MCDOWELL ENGINEERING, INC.


Jackie S. McDowell, PE

Copy: Owner



McDowell Engineering Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Tele: (505)828-2430
Fax: (505)821-4857

Project: MARBERRY 4-FLR

Project No.: MAR0101L Date: 1/5/02

Subject: Wall-Turned Block Cals

By: DSM Sheet 1 of 1

Capacity of 1-turned block :

$$Q = CA \sqrt{2gh}$$

Where

$$n = 0.25$$

$$A = 0.0304 \text{ sf./block}$$

$$C = 0.6$$

$$g = 32.2 \text{ ft/s}$$

$$\therefore Q_{cap} = 0.73 \text{ cfs/block}$$

Offsite flow from Lot 4 = ~~0.73~~ cfs
(calcs attached)

Marberry Offsite (Lot #4)

17-Feb-02

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 = 2

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

P = 2.35 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$

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	0.19	0.00
Treatment B	0.00	0.05
Treatment C	0.00	0.00
Treatment D	0.00	0.14
Total (acres) =	0.19	0.19

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.01	0.03	0.00	0.02	0.00	0.01
Volume (cubic feet) =	358	1,219	88	732	0	405

Total Q(p), cfs	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.29	0.00	0.07	0.00	0.00	0.00
Treatment B	0.00	0.11	0.00	0.05	0.00	0.00
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	0.66	0.00	0.44	0.00	0.26
Total Q (cfs) =	0.29	0.77	0.07	0.49	0.00	0.26






SE

Z

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: MARBERRY DEVELOPMENT ZONE MAP/DRG. FILE #: L-16/D34A
DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOTS 5 & 6, LOMA LINDA ADDTION
CITY ADDRESS: GIRARD BLVD.

ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE S. MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE PHONE: (505) 828-2430
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87122

OWNER: PHILLIP MARBERRY CONTACT: PHILLIP MARBERRY
ADDRESS: 2170 CAMINO DE CHAVEZ PHONE: (505) 264-0553
CITY, STATE: BOSQUE FARMS, NM ZIP CODE: 87068

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: SOUTHWEST SURVEYING CO. CONTACT: DAN GRANEY
ADDRESS: 333 LOMAS BLVD. PHONE: (505) 998-0303
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ 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)
☐ ENGINEER'S CERTIFICATION (TCL)
☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:
☐ SIA / FINANCIAL 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)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 2-18-02 BY: Jackie S. McDowell
Jackie S. McDowell

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 degrees of drainage detail. One or more of the following levels of submittal may be required based on the following:

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

RECEIVED
FEB 13 2002
HYDROLOGY SECTION

DRAINAGE INFORMATION SHEET

PROJECT TITLE: MARBERRY DEV. ZONE ATLAS/DRNG. FILE #: L-16 / D34A
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: LOTS 5 & 6, LOMA LINDA ADDITION
CITY ADDRESS: GIRARD BLVD
ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE, 87122 PHONE: 828-2430
OWNER: PHILLIP MARBERRY CONTACT: PHILLIP MARBERRY
ADDRESS: 2170 CAMINO DE CHAVEZ PHONE: 264-0553
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: SOUTHWEST SURVEYING COMPANY CONTACT: DAN GRANEY
ADDRESS: 333 LOMAS BLVD. PHONE: 998-0303
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAIN. PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

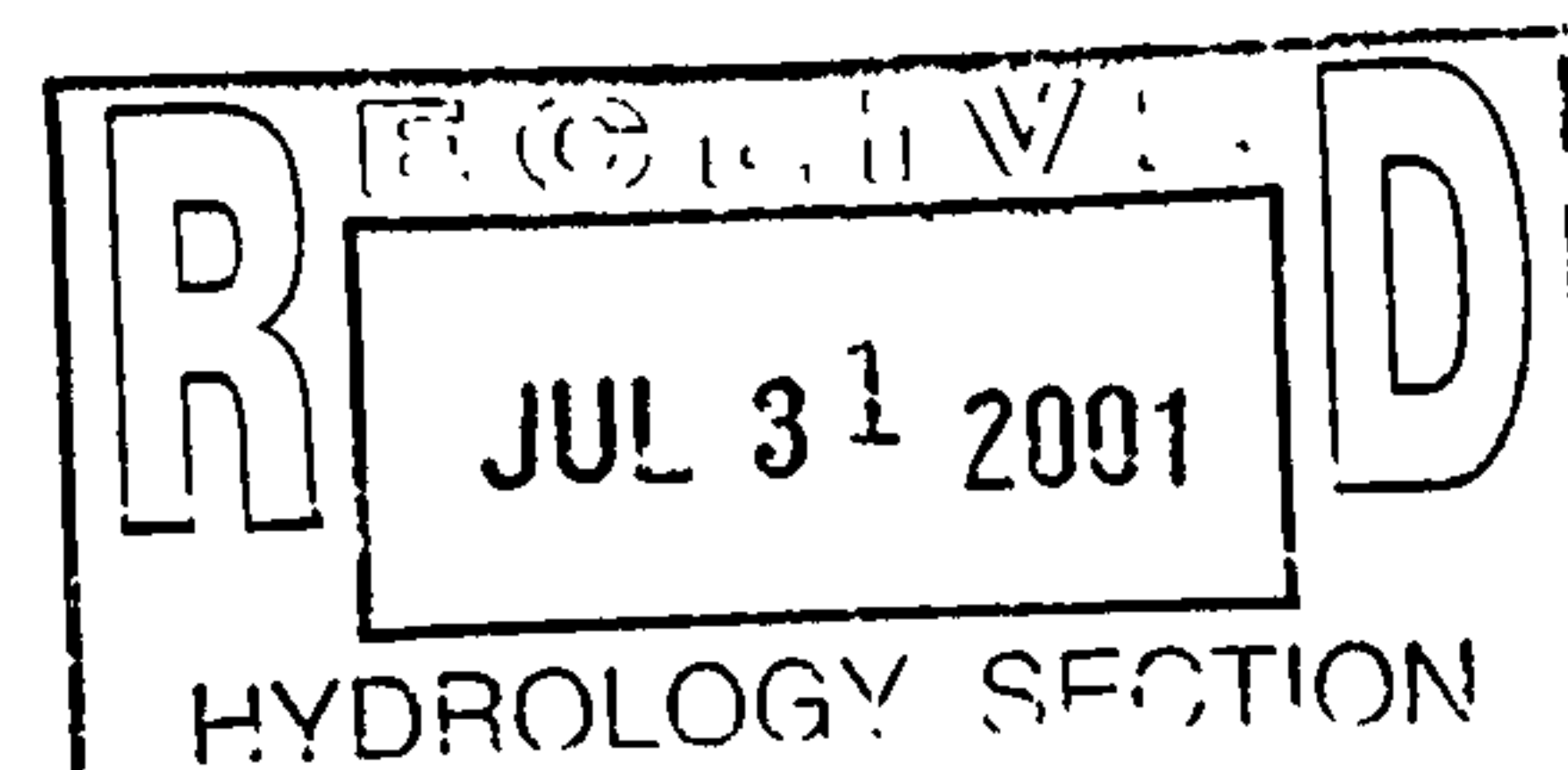
☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S.DEV PLAN FOR SUB'D APPROVAL
☐ S.DEV PLAN FOR BLDG PMT APPR.
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERT. OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: JULY 30, 2001

BY: JACKIE S. MCDOWELL, P.E.



McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: City of Albuquerque
Hydrology Dept.
600 Second St. NW 87102
Plaza del Sol - main level - west

DATE: 7-30-01
PROJ. NO.: _____

RE: MARBERRY DEV.

WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via delivery the following items:

COPIES	DATE	DESCRIPTION
1	7/31	Grading & Drainage Plan
1		Drainage Info. Sheet

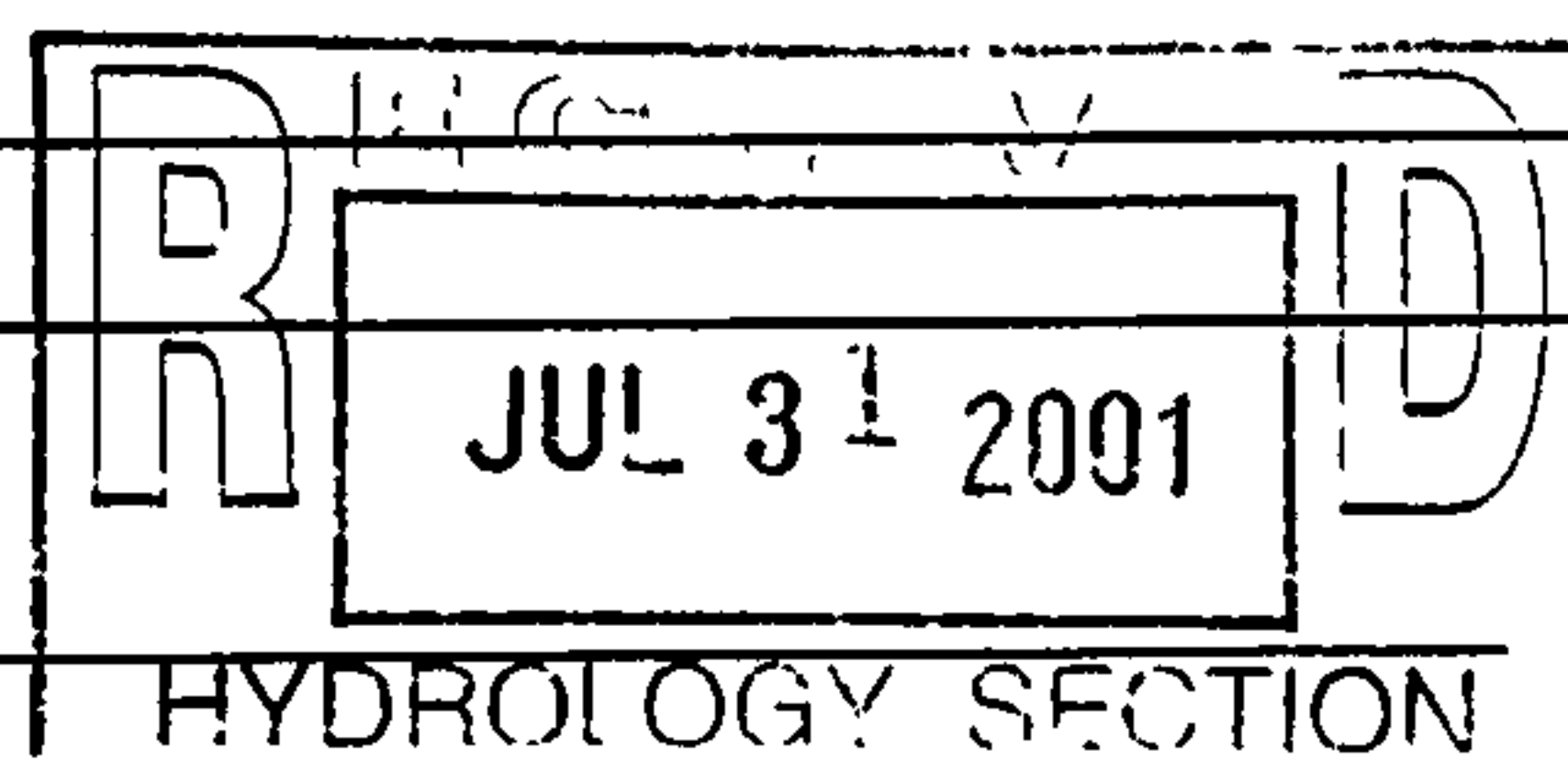
THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____

REMARKS:

COPY TO: file



SIGNED: [Signature]
Jackie S. McDowell, P.E.

' b k
' b k
' b k
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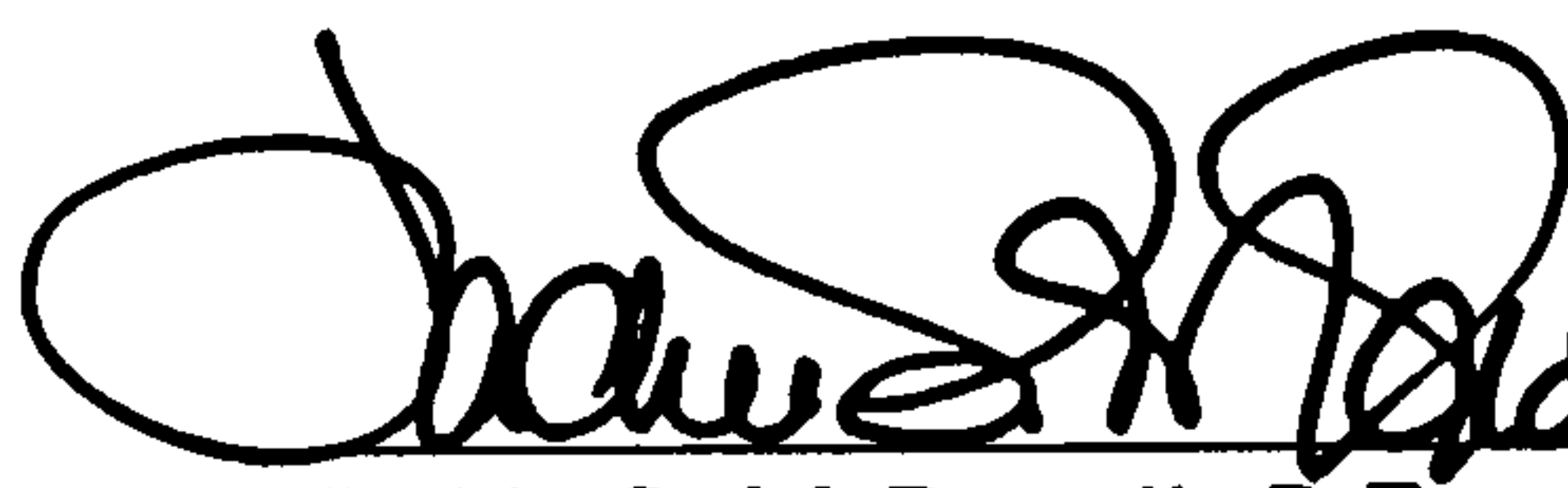
ATTACHMENT NO. 1

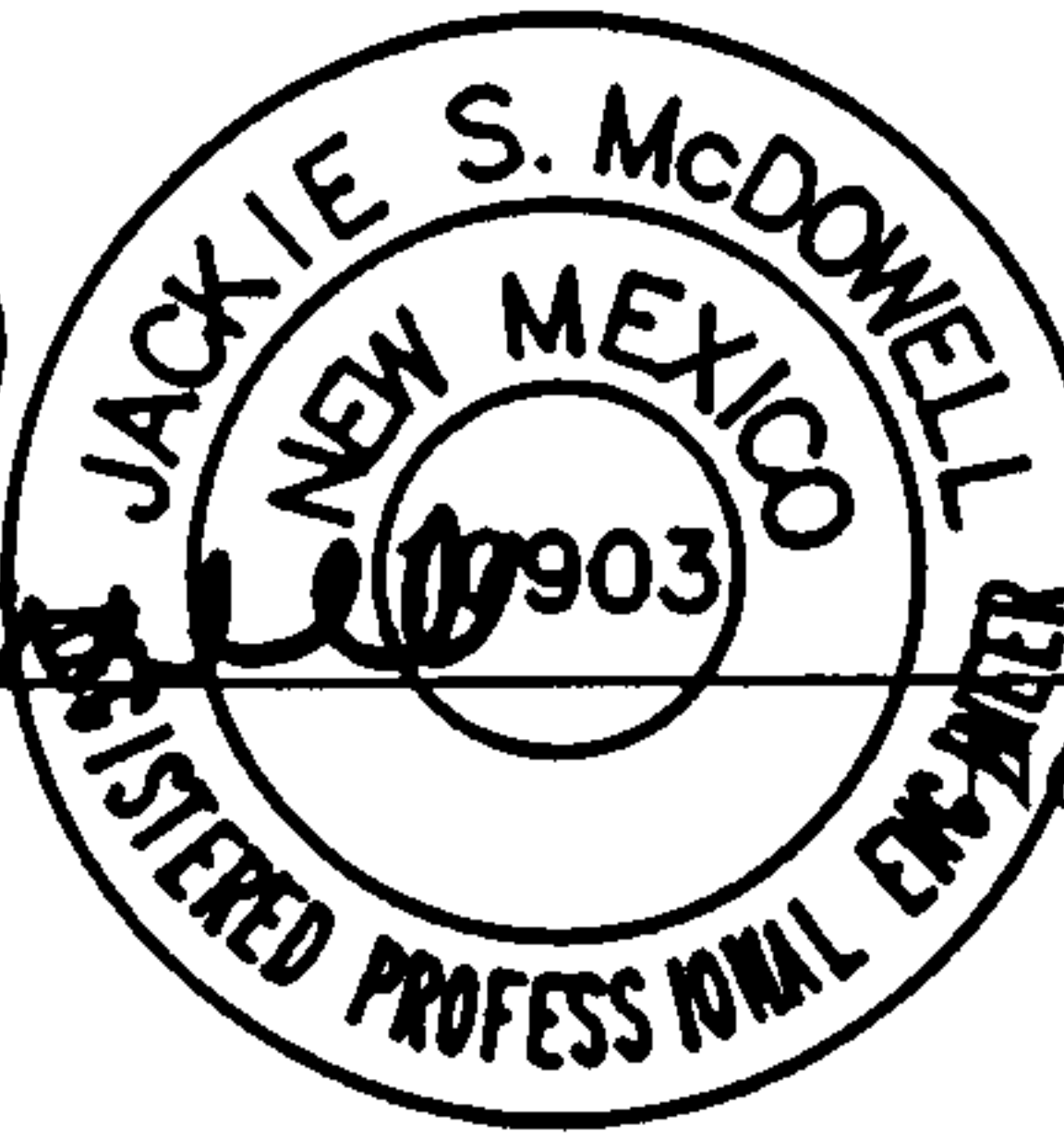
SUPPLEMENTAL CALCULATIONS TO

MARBERRY
LOTS 5 & 6
LOMA LINDA ADDITION

GRADING & DRAINAGE PLAN

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


Jackie S. McDowell, P.E.

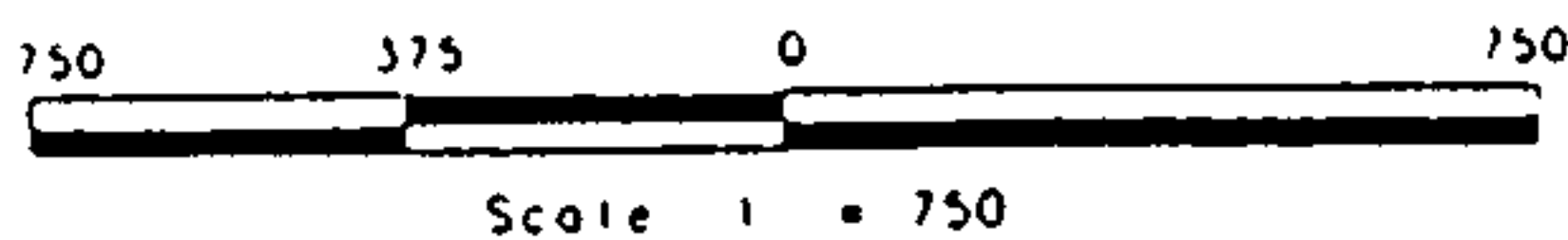
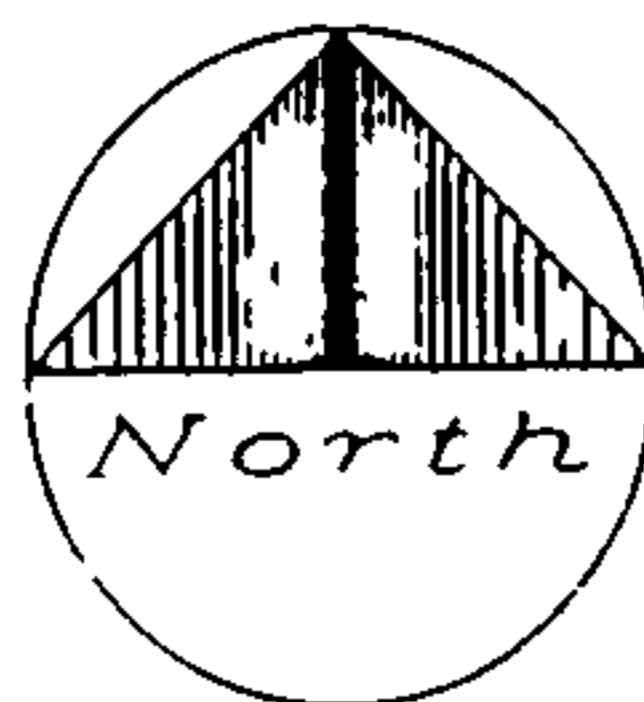
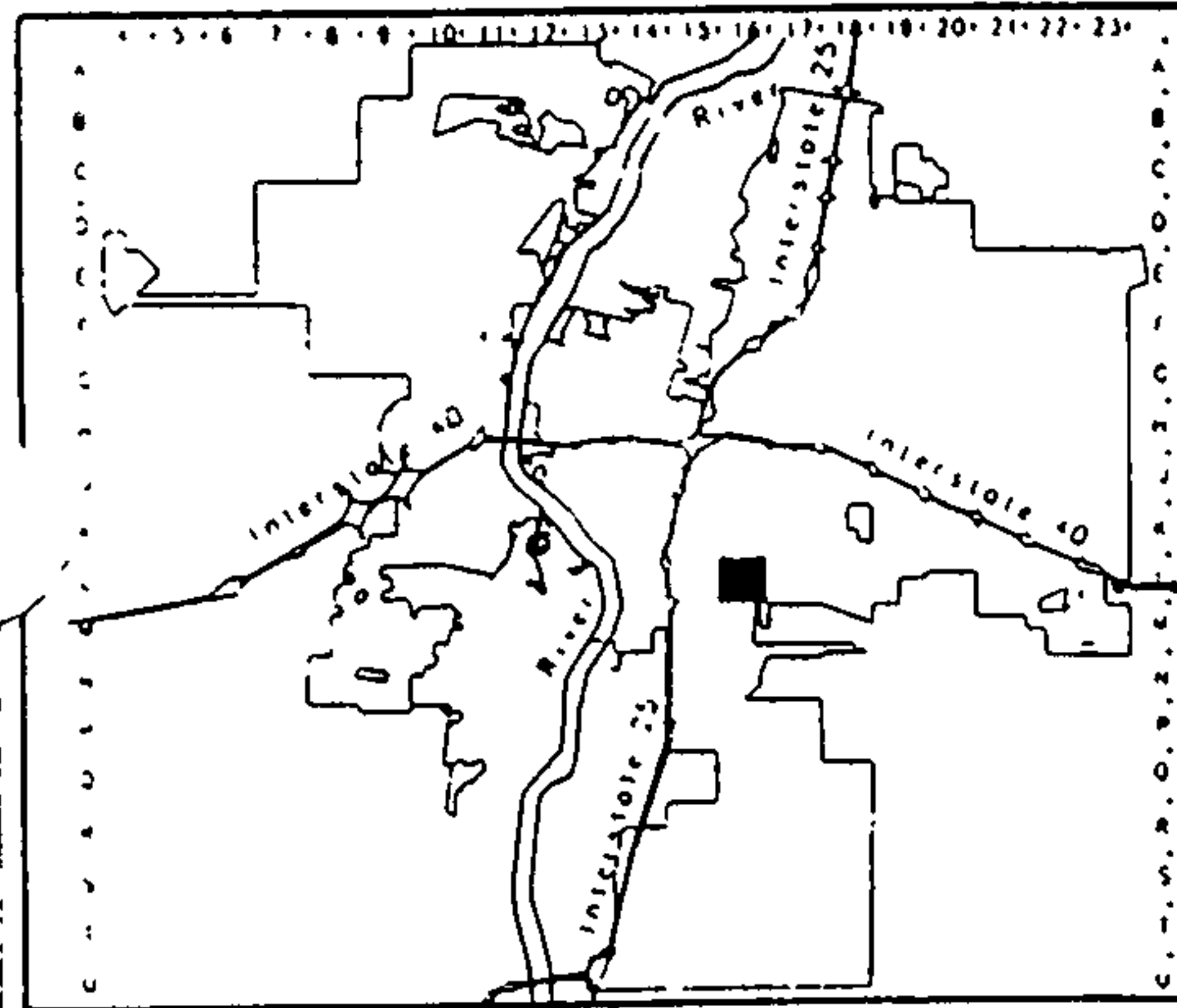
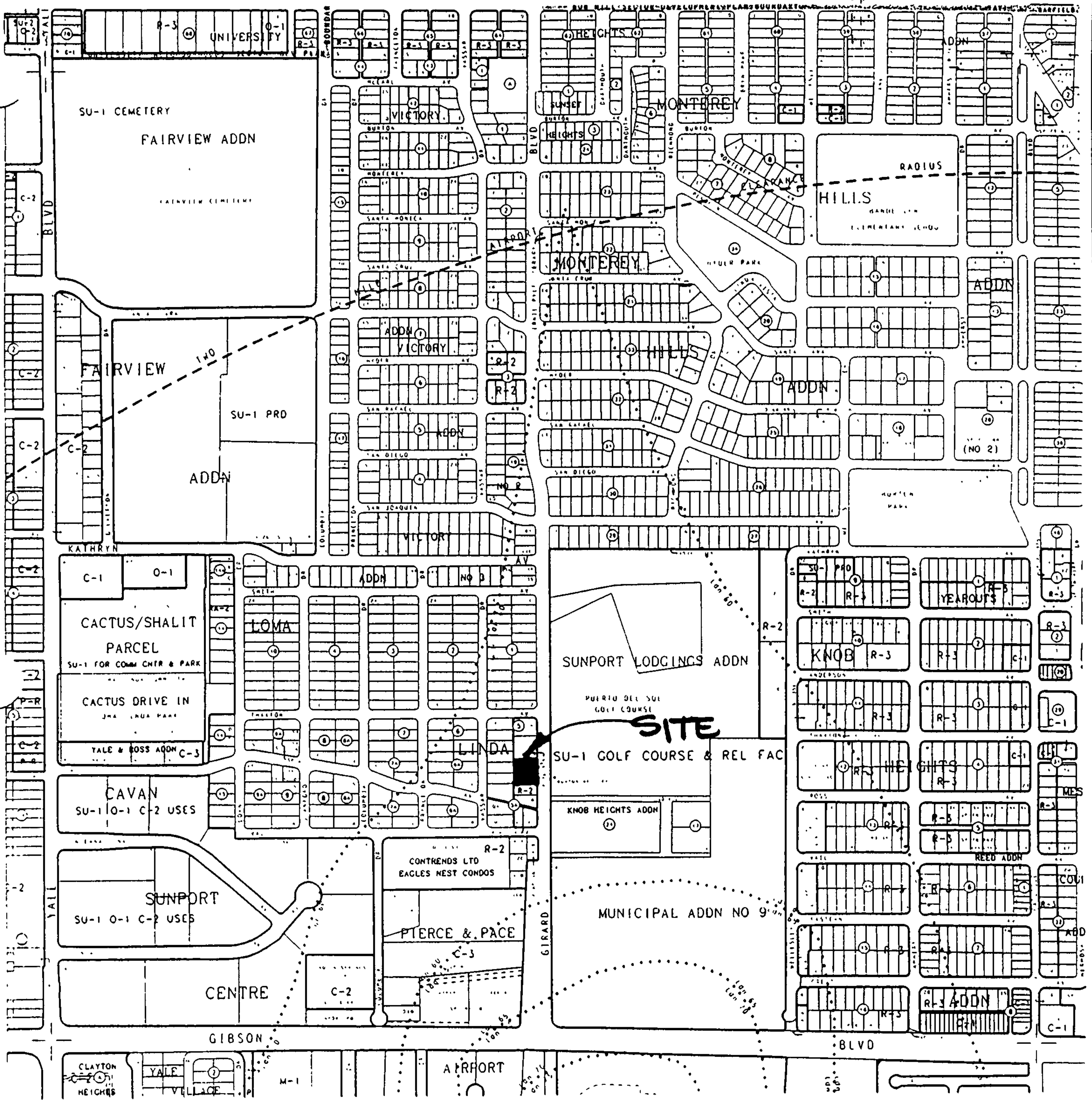
 7-26-01

RECEIVED
JUL 31 2001
HYDROLOGY SECTION

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FEMA Floodway Map - 1996	3
AGIS Floodplain Map	4
Reduced Grading & Drainage Plan	5
Onsite Basin Calculations	6



A **G** **I** **S**
 Geographic Information System
City of Albuquerque

© Planning Department July 04, 1993

LEGAL DESCRIPTION

TION

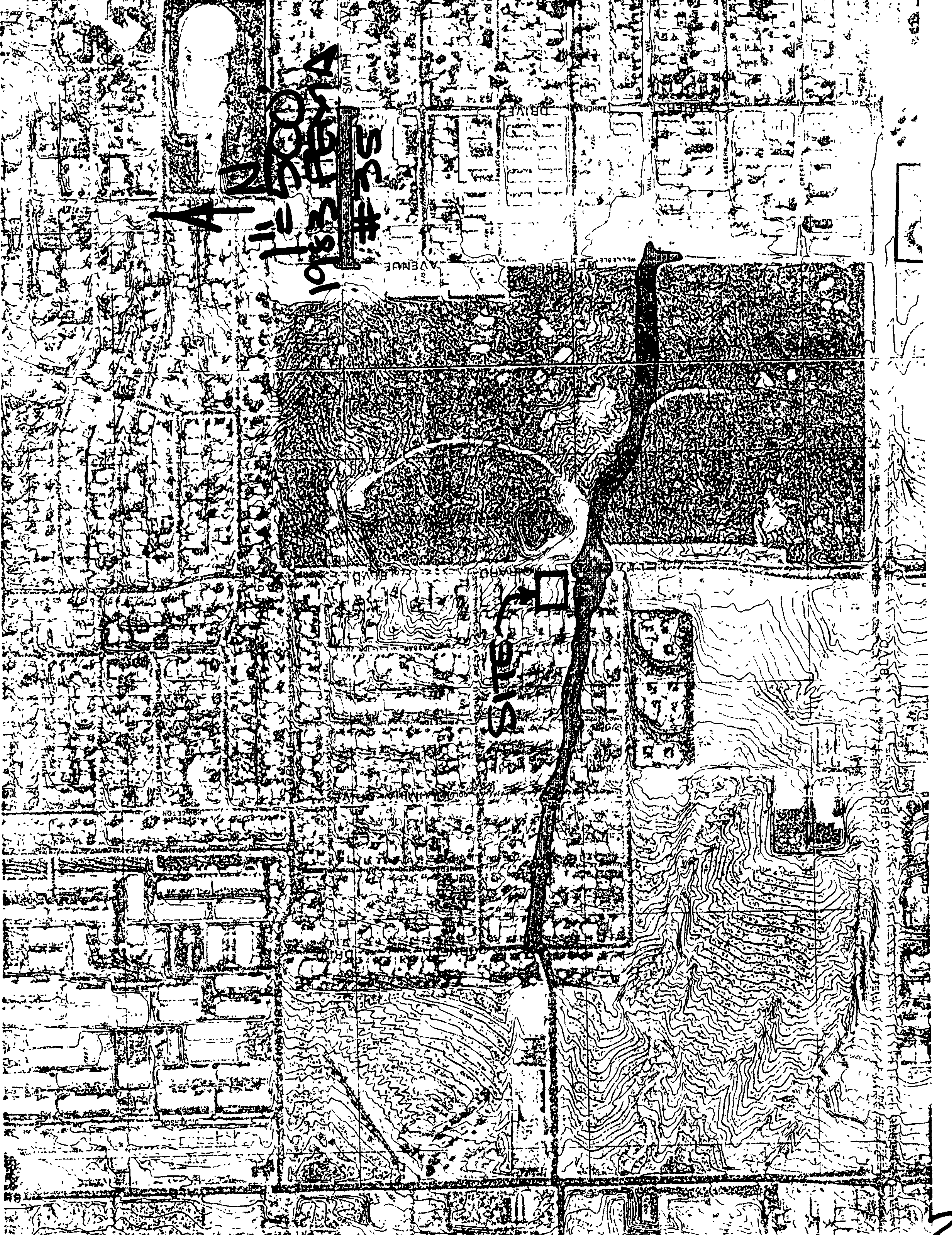
R3E

SEC 27

UNIFORM PROPERTY CODE

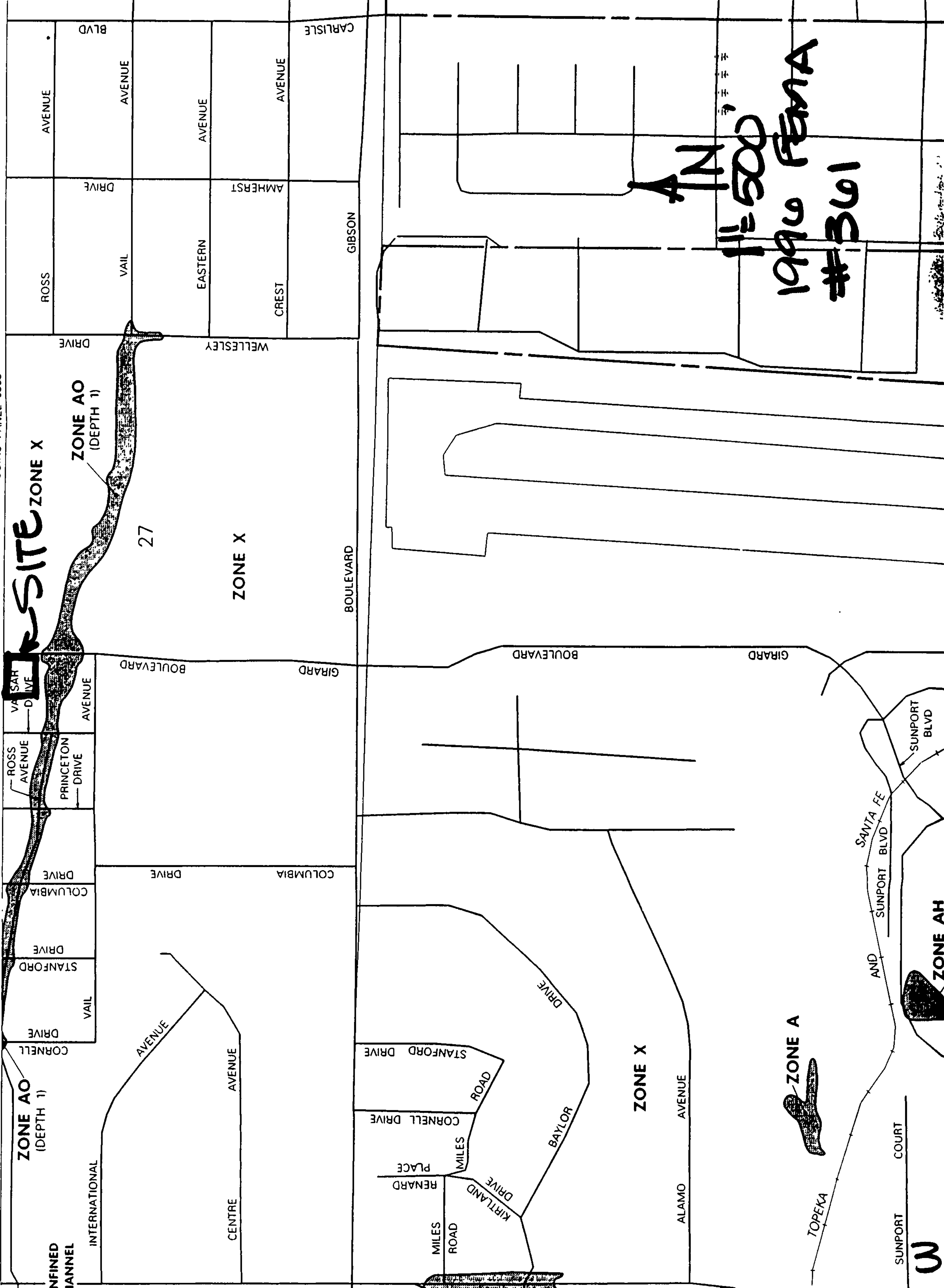
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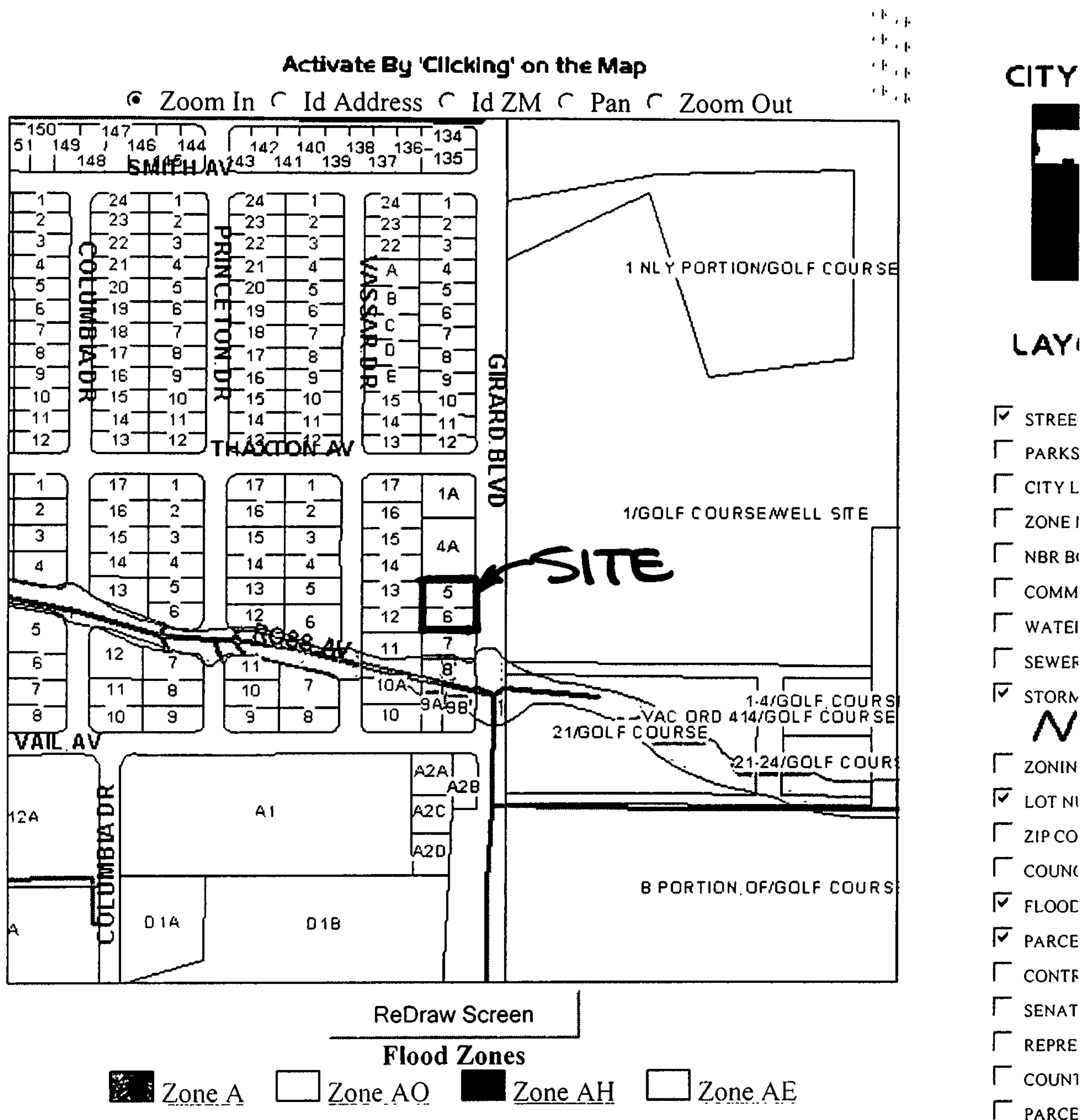
L-16-21



1961
#11
A-2000
SMITH AVE

1961
#11
A-2000





↑
IN
NTS

FULL VIEW

NEW QUERY

Copyright (c) 2000 City of Albuquerque

SURVEYING NOTES:

SPOT ELEVATION LEGEND	SYMBOLS LEGEND
• = ELEVATION AT GROUND	• = POWER POLE
--- = ELEVATION AT EDGE OF PAVEMENT	--- = OVERHEAD UTILITY LINE
--- = ELEVATION AT BACK OF SIDEWALK	• = SINKER MANHOLE
--- = ELEVATION AT CENTERLINE OF DRIVING LANE	• = WATER METER
--- = ELEVATION AT BACK OF CURB AND FLOWLINE	--- = BLOCK WALL
--- = ELEVATION AT RIM OF MANHOLE	
	MINIMUM LEGEND
	• = TEMPORARY BENCH MARK
	• = FOUND CORNER (AS NOTED)
	• = COMPUTED CORNER (NOT SET)

THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE FOR ORIENTATION ONLY. BOUNDARY DATA SHOWN IS FROM THE PLAT OF LOMA LINDA SUBDIVISION FILED IN BERNALILLO COUNTY NEW MEXICO ON JULY 29, 1954 IN VOLUME C2, FOLD 187.

THE BASIS OF ELEVATIONS FOR THIS SURVEY IS ACS BENCHMARK 19-116. THE PUBLISHED ELEVATION OF WHICH IS 5294.836 AND IS LOCATED 185 FEET NORTH OF THE CENTERLINE OF SHAWTON AVENUE S.E. AND 18.5 FEET EAST OF THE CENTERLINE OF GRAND BLVD S.E.

DRAINAGE PLAN

SCOPE

Pursuant to the latest City of Albuquerque Ordinance the Drainage Plan shown herein outlines the drainage management criteria for controlling developed runoff on and exiting the project site. Two new buildings are proposed for the subject properties with associated access, parking and landscaping.

EXISTING CONDITIONS

Presently the 0.37 acre site (two lots) is undeveloped and drains to the south. The site is bounded on the north, south and west by private property and on the east by Grand Blvd. As shown by the FEMA Map Panel No. 361, dated 1996, the site is not located in a 100-year floodplain. Negligible off-site runoff enters the property from the north and will continue to drain through the site as currently draining.

PROPOSED CONDITIONS

As shown by the plan, the buildings are located within the setback limits of the property with required parking areas. All developed roof drainage and parking lot drainage will flow to Grand Blvd, reducing the amount of runoff leaving the site to the south private properties. The property west of the buildings will continue to drain to the south.

DOWNSIDE CAPACITY

Per the previously approved Grading and Drainage Plan for Lot 7 (the property to the south of the subject property), this development will drain in the same manner. The impervious flow from the site will drain into Grand Blvd, and flow south into an existing concrete runoff and/or existing drop that which runs east to west from Grand Blvd. This flow will eventually discharge into Rose Ave. Based on the size of the runoff opening of 28 feet and the double "C" test this basin should not create additional capacity problems.

Supplemental calculations have been provided to the City of Albuquerque Hydrology Department.

CALCULATIONS

The calculations shown herein define the 100 year/5 hour design storm falling within the project area under existing and developed conditions. The hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County New Mexico and the Albuquerque Metropolitan Area Flood Control Authority latest edition.

Existing Treatment Types:

Treatment A = 0.37 acres
Treatment B = 0.00 acres
Treatment C = 0.00 acres
Treatment D = 0.00 acres

Proposed Treatment Types:

Treatment A = 0.00 acres
Treatment B = 0.10 acres
Treatment C = 0.00 acres
Treatment D = 0.27 acres

Using the values above produces the following storm water flow and volumes:

Existing 100-year flow = 0.58 cfs
Proposed 100-year flow = 1.50 cfs

Existing 100-year volume = 712 cu ft
Proposed 100-year volume = 2,561 cu ft

PROPERTY ADDRESS

Grand Blvd

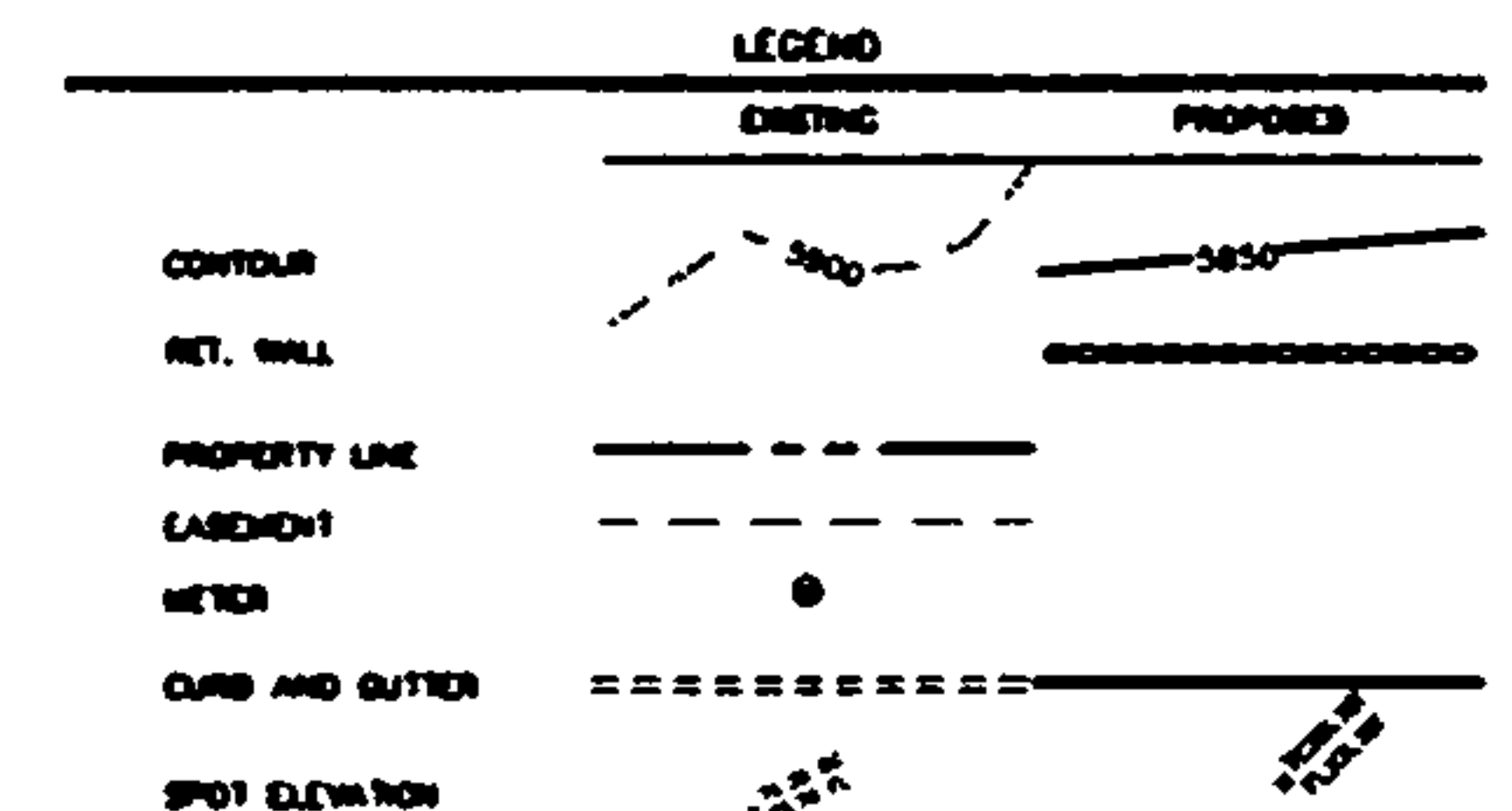
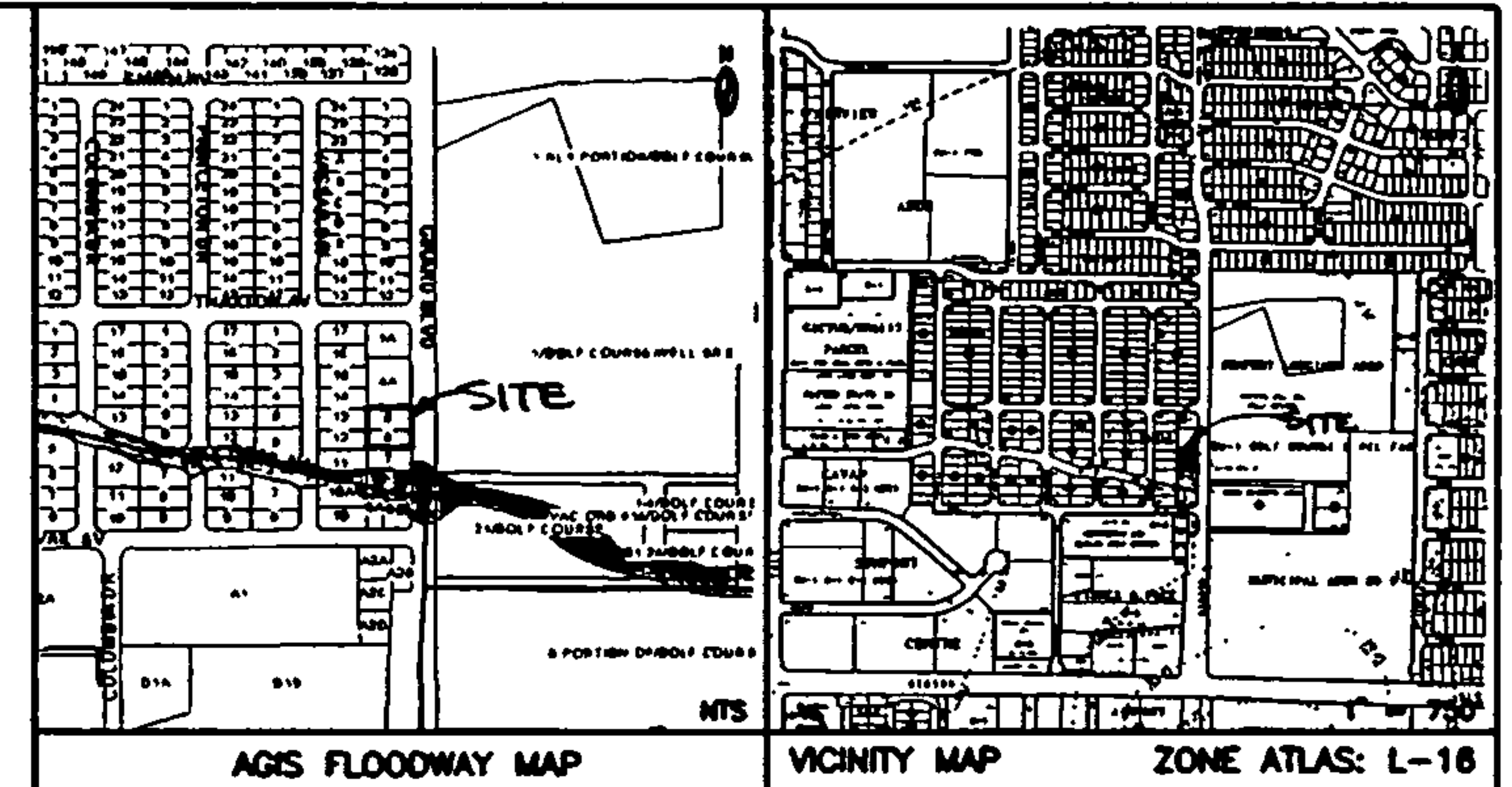
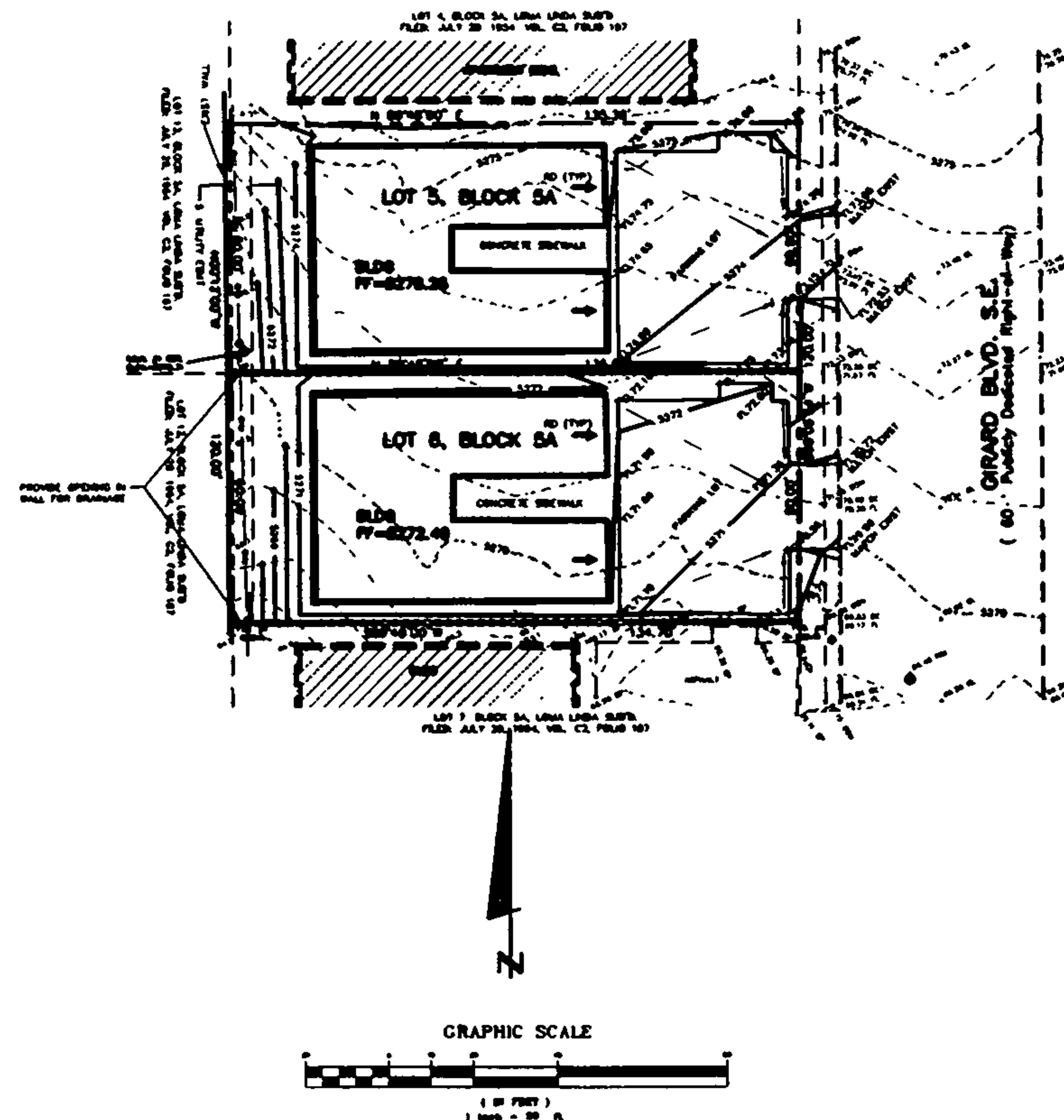
TOPOGRAPHY

Topographic information provided by Southwest Surveying Co. Inc. dated July 2001.

UTILITY COMPANY INFORMATION
P.N.M. GAS & ELECTRIC SERVICES
RUBEN PHILLIPS 848-4944
OWEST COMMUNICATIONS
CATHY 245-8706
COMCAST CABLE
VIOLET WATSON 761-6273

GENERAL GRADING NOTES

1. THE CONTRACTOR SHALL OBTAIN A TOP SOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR THIS LOT AND CAN BE OBTAINED BY THE OWNER.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY COUNTY STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS PERMITS AND APPROVALS.
4. PVC DRAINAGE PIPES MAY REQUIRE FIELD ADJUSTMENT DUE TO SUBSURFACE ROCK. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO INLET/STREET.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
6. TWO WORKING DAYS PRIOR TO EXCAVATION THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
7. CONTRACTOR SHALL PROVIDE DOUBLE CLEAN-OUTS AT ALL BENDS IN DRAINAGE PIPE.
8. THE TOPSOIL COULD BE SAVED ASIDE FOR RE-USE IN FILLING DISTURBED AREAS AROUND THE STRUCTURE.
9. ALL DISTURBED AREAS ON THE LOT SHALL BE RESEEDING WITH NATIVE SEEDING MATERIAL.
10. THE MAXIMUM GRADED SIDE SLOPE SHALL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY).
11. AREAS DISTURBED DUE TO GRADING SHALL BE RESEEDING IN ACCORDANCE WITH CITY OF ALBUQUERQUE STD SPECIFICATION 1012 - NATIVE GRASS SEEDING, D.A.E.



7-20-01

CITY OF ALBUQUERQUE, BERNALILLO COUNTY		NEW MEXICO	
LOTS 5 & 6, BLOCK SA LOMA LINDA SUBDIVISION			
HARBERRY DEVELOPMENT			
McDowell Engineering Inc.			
Designed JSM	Drawn STJ	Checked JSM	Sheet 1 of 1
Date MAR 2001	Date JUL 2001		

57

Project: MARBERRY LOTS 5 & 6 ON-SITE CALCULATIONS

27-Jul-2001

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 = 2

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

P = 2.35 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$

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	0.37	0.00
Treatment B	0.00	0.10
Treatment C	0.00	0.00
Treatment D	0.00	0.27
Total (acres) =	0.37	0.37

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.02	0.05	0.00	0.03	0.00	0.02
Volume (cubic feet) =	712	2,361	175	1,415	0	782

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.58	0.00	0.14	0.00	0.00	0.00
Treatment B	0.00	0.23	0.00	0.10	0.00	0.01
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	1.27	0.00	0.85	0.00	0.50
Total Q (cfs) =	0.58	1.50	0.14	0.94	0.00	0.51

McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: Terry Martin
COA Hydrology
Playa del Sol
600 Second St. - Main Level - West

DATE: 1-2-02

PROJ. NO.: _____

RE: MARBERY 4-PLEX (2-16/D34A)

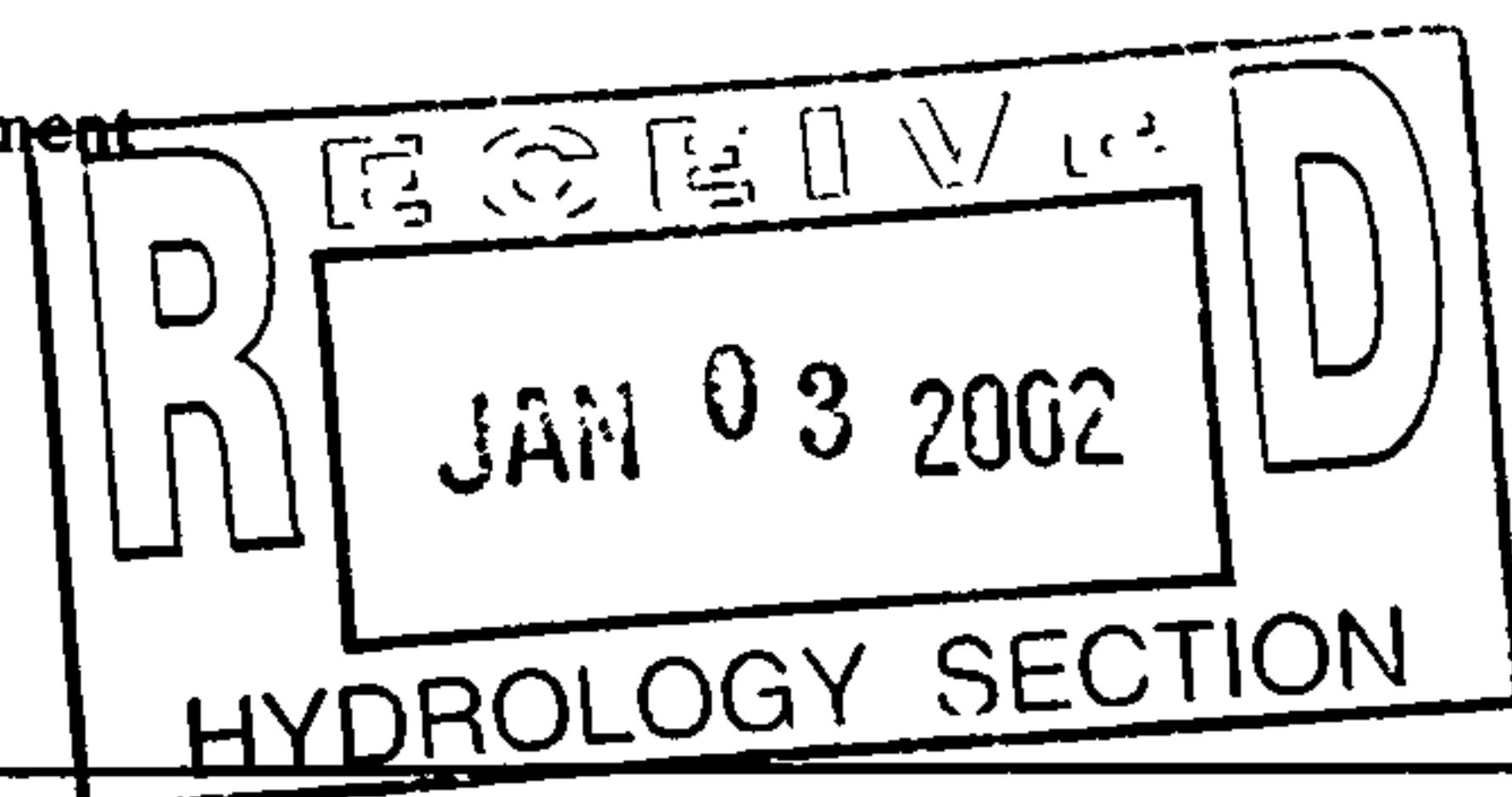
WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via delivery the following items:

COPIES	DATE	DESCRIPTION
1	1-2-02	Revised Grading & Drainage Plan
1		Dr. Info. Sheet

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____



REMARKS:

COPY TO: je

SIGNED: [Signature]
Jackie S. McDowell, P.E.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 22, 2002

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

**RE: Grading and Drainage Plan for Marberry Development Lots 5&6, LOMA Linda
(L16-D34A) Dated February 17, 2002**

Dear Ms. McDowell:

The above referenced drainage plan received February 18, 2002 is approved for building permit. Upon completion of the project please submit a certification per the DPM for certificate of Occupancy release.

If you have any questions please call me a 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

*** TX REPORT ***

' b, p
' b, p
' b, p
' b, p

TRANSMISSION OK

TX/RX NO 1161
CONNECTION TEL 98214857
SUBADDRESS
CONNECTION ID
ST. TIME 01/08 14:40
USAGE T 01'28
PGS. 2
RESULT OK

City of Albuquerque
Public Works Department
505-924-3900 (main number)
505-924-3864 (fax number)
Development and Building Services (One Stop Shop)
Plaza Del Sol Building, 2nd Floor
600 2nd Street NW
Albuquerque, NM 87102

City of Albuquerque
Public Works Dept.
Dev. & Bldg. Svcs.

Fax

To: JACKIE McDowell From: LESLIE Romero

Fax: 821-4857

Pages Sent: (including this page)

Phone: 828-2430

Date: 1/8/02

Time:

☐ Urgent ☐ For Review ☒ Please comment ☐ Please Reply ☐ Please Recycle

Comments:

Jackie

Here is the letter sent out
to you this morning.

City of Albuquerque
Public Works Department
505-924-3900 (main number)
505-924-3864 (fax number)
Development and Building Services (One Stop Shop)
Plaza Del Sol Building, 2nd Floor
600 2nd Street NW
Albuquerque, NM 87102

City of Albuquerque
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Fax

To: JACKIE McDowell From: LESLIE Romero

Fax: 821-4857 Pages Sent: (including this page) _____

Phone: 828-2430 Date: 1/8/02

Time: _____

☐ Urgent ☐ For Review ☒ Please comment ☐ Please Reply ☐ Please Recycle

Comments:

Jackie
Here is the letter sent out
to you this morning for comment review
on Marberry Development. Please
address ^{comments} and resubmit to Hydrology
for Building Permit approval.

Thanks,

Leslie
924-3984 or Carlos
924-3982

~~Mr. Jack~~ Mr. Dowell

828 2430

2/1/85
L.A.

U.C.
3978



Phil MARBERG
620-7903
264-0553

















City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 1, 2002

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

RE: Drainage Complaint for Marberry Development Lots 5&6, LOMA Linda (L16-D34A)

Dear Ms. McDowell:

I wanted to follow up on my previous letter of June 17, 2002. We are still receiving the original complaint on the retaining wall to the west of your site.

The following items need to be addressed prior to the release of the Certificate of Occupancy. We will need a submittal from the design engineer addressing the following.

1. Please show the grades along the retaining wall on both sides.
2. Indicate the elevation of the top of wall.
3. Indicate which part of the wall is a retaining wall and which part is a garden wall.
4. Was a retaining wall permit obtained for this retaining wall in the past?
5. Is this retaining wall capable of supporting the existing and proposed grades?

Your original drawings should have contained the above information. Also, please submit a detail on how this runoff will be released to the south and if downstream lots can safely carry this runoff.

If you have any questions please call me a 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Dan Loy, Building Inspector
Philip Marberry, owner



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

June 17, 2002

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

RE: Drainage Complaint for Marberry Development Lots 5&6, LOMA Linda (L16-D34A)

Dear Ms. McDowell:

The City has received a complaint on the referenced project. I visited the site on June 7, 2002 and took pictures. Your drawing shows an existing wall on the west side of your site. The drawings do not show that there is a major difference in elevation between your property and the existing property to the west. Is this existing wall a retaining wall and capable of supporting this difference in elevation? If the existing wall is a garden wall then proposed improvements will have to be submitted to Building Code and Hydrology Division. Second, the wall does not have a method of allowing the runoff to discharge to the south. Please submit a detail on how this runoff will be released to the south and if the downstream lots can safely carry this runoff. Please show more spot elevations on the new retaining walls. I would appreciate your immediate attention concerning this matter.

I have notified the Building & Safety Division of the need of a retaining wall. Also, we will not release the Certificate of Occupancy until this problem is corrected.

If you have any questions please call me a 924-3982.

Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Dan Loy, Building Inspector
Philip Marberry, owner



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

June 17, 2002

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

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Carlos A. Montoya
City Floodplain Administrator

C: Dan Loy, Building Inspector
Philip Marberry, owner



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

July 9, 2002

Levi J. Valdez
BTM Development Consultant
4409 Karrol Road SW
Albuquerque, New Mexico 87121

**RE: Certification for Quanz Car Care Facility (C12-D5A) 9101 Eagle Ranch Road NW
dated July 5, 2002**

Dear Mr. Valdez:

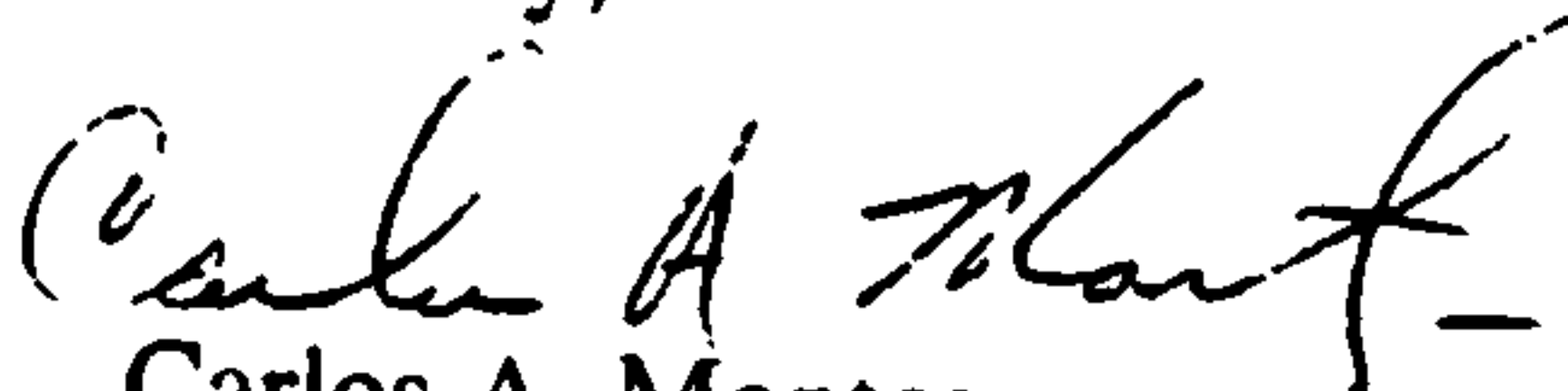
Hydrology can release a Temporary Certificate of Occupancy with the following deficiencies.

1. The proposed contour elevations shown on the original drawing does not match with the as-built elevation information. Please correct the proposed elevations. The proposed elevations appear to show that runoff will enter the building. Because the building's finish floor was lowered will runoff enter the building?
2. Please obtain the SO#19 for the 4inch PVC pipe in All Saints Road if it is public. Show information that shows if the street is private or public.

Prior to release of the Permanent Certificate of Occupancy the above deficiencies need to be corrected.

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

Sincerely,


Carlos A. Montoya
City Floodplain Administrator



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

June 17, 2002

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

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Sincerely,

Carlos A. Montoya
City Floodplain Administrator

C: Dan Loy, Building Inspector
Philip Marberry, owner



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

July 1, 2002

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

RE: *1701 Grand SE*
Drainage Complaint for Marberry Development Lots 5&6, LOMA Linda (L16-D34A)

Dear Ms. McDowell:

I wanted to follow up on my previous letter of June 17, 2002. We are still receiving the original complaint on the retaining wall to the west of your site.

The following items need to be addressed prior to the release of the Certificate of Occupancy. We will need a submittal from the design engineer addressing the following.

1. Please show the grades along the retaining wall on both sides.
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Carlos A. Montoya
City Floodplain Administrator

C: Dan Loy, Building Inspector
Philip Marberry, owner

CITY OF ALBUQUERQUE

• • •
• • •
• • •
• • •

Public Works Department

Open Suspense Log, (Updated Nightly)

Inquiry By: Council Contact
Referral's Name: Patricia Galindo
Referral Office: Council

Date Received: 5/24/2002
Response Sent:
Date Completed:

Division Contact: Fred Aguirre
Division: One-Stop
Department: Public Works
Subject: Hydrology Issues

Address: 1721 Girard SE
Major Cross Streets:
Contact Name: Carla Flores
Contact's Organization:
Contact's Wk: 7687370
Contact's Hm:
Contact's Email:

Issue: Councilor Yntema received a constituent call regarding a new four-plex l at the said address . Apparently, this property is nearby Puerto Del Sol Golf Coi constituent is concerned because she feel that hydrology issues were not properl when these plans were approved. She stated that a Terry Martin approved the pl actually visiting the site. She has some concerns regarding the grade of the prop water drainage. Could you please call her and discuss these issues with her? Ple me of the status of this inquiry so that I can inform the Councilor.

Outcome/Status: 5/24 from DH to PG: This is definitely a City Engineer issue therefore I'm hereby forwarding it to Fred Aguirre.

|< < > >| [2/17]



Last updated: April 25, 2002
 Copyright © 2002 The City of Albuquerque/Public Works

To: Carlos
FROM: Fred

Keep me
informed.



Dan W. Hogan

05/24/02 04:32 PM

To: Patricia M. Galindo/CITY COUNCIL/CABQ, Fred J. Aguirre/PWD/CABQ@COA
cc: Charlene Cable/PWD/CABQ@COA, (bcc: Carlos A. Montoya/PWD/CABQ)
Subject: Re: 1721 Girard SE

Patricia,

This is definitely a City Engineer issue and therefore I'm hereby forwarding it to Fred Aguirre.

Thanks, Dan Hogan (2778)



Patricia M. Galindo

05/24/2002 04:23 PM

To: Dan W. Hogan/PWD/CABQ@COA
cc: Charlene Cable/PWD/CABQ@COA
Subject: 1721 Girard SE

Dan,

Councilor Yntema received a constituent call regarding a new four-plex being built at 1721 Girard SE. Apparently, this property is nearby Puerto Del Sol Golf Course. The constituent is concerned because she feels that hydrology issues were not properly looked at when these plans were approved. The Constituent's name is Carla Flores. Her phone number is 768-7370. She stated that a Terry Martin approved the plans without actually visiting the site. She has some concerns regarding the grade of the property and water drainage. Could you please call her and discuss these issues with her? Please advise me of the status of this inquiry so that I can inform the Councilor.

Thanks, Patricia



Dan W. Hogan

05/24/02 04:32 PM

To: Patricia M. Galindo/CITY COUNCIL/CABQ, Fred J. Aguirre/PWD/CABQ@COA
cc: Charlene Cable/PWD/CABQ@COA
Subject: Re: 1721 Girard SE

Patricia,

This is definitely a City Engineer issue and therefore I'm hereby forwarding it to Fred Aguirre.

Thanks, Dan Hogan (2778)



Patricia M. Galindo

05/24/2002 04:23 PM

To: Dan W. Hogan/PWD/CABQ@COA
cc: Charlene Cable/PWD/CABQ@COA
Subject: 1721 Girard SE

Dan,

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Thanks, Patricia



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**Public Works Department
Transportation Development Services Section**

February 22, 2002

Jackie McDowell, PE
7820 Beverly Hills Ave. SE
Albuquerque, NM 87122

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for
Marberry Development, [L16 / D34A]
1721 Girard SE
Engineer's Stamp Dated 2-17-02

Dear Ms. McDowell:

The TCL submittal, dated February 18, 2002, is sufficient for acceptance, on the condition that the entrance is 24ft in width at the top of the driveway, by this office and is stamped and signed as such. Four copies will be required: two for submittal of building permit plans, one for this office and one to be kept by you to be used for certification of the site for final C.O. for Hydrology/Transportation.

When superintendent of project is ready to call for a Temporary C.O. immediate issuance is no longer possible at that time. An exact copy of the approved TCL, marked up, showing incomplete work remaining, along with a letter of certification is required prior to issuance of Temporary C.O. If project is one of multiple phases, Barricading Plan is needed clearly illustrating separation of this site from coming phases, not completed or yet begun.

When site is complete and a Final C.O. is needed, a Letter of Certification, stating site was built in substantial compliance, needs to be attached to your stamped, approved TCL letter or TCL must be stamped with the designer's seal for the certification. Seal must be signed and dated for that submittal. This and all documentation must be submitted with a completed Drainage Information Sheet (also used for the Grading and Drainage submittal) to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. to confirm that Final C.O. has been issued to the superintendent, call Building Safety at 924-3306.

Sincerely,

Richard Dourte, PE
Traffic Engineer
Development and Building Services
Public Works Department

c: Hydrology file
Mike Zamora



07147007132

POLAROID® 32

6-7-02

L16-D34A



07147007132

POLAROID® 32

6-7-02

L/6-D34A



07147007132

POLAROID® 32

6-7-02

L16-D34A



071470.07133

POLAROID® 32

6-7-02

L16-D34A



07147007102

POLAROID® 32

6-7-02

L16-D34A

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: MARBERRY DEVELOPMENT ZONE MAP/DRG. FILE #: L-16/D34A
DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOTS 5 & 6, LOMA LINDA ADDTION
CITY ADDRESS: GIRARD BLVD.

ENGINEERING FIRM: MCDOWELL ENGINEERING, INC. CONTACT: JACKIE S. MCDOWELL
ADDRESS: 7820 BEVERLY HILLS AVE. NE PHONE: (505) 828-2430
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87122

OWNER: PHILLIP MARBERRY CONTACT: PHILLIP MARBERRY
ADDRESS: 2170 CAMINO DE CHAVEZ PHONE: (505) 264-0553
CITY, STATE: BOSQUE FARMS, NM ZIP CODE: 87068

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: SOUTHWEST SURVEYING CO. CONTACT: DAN GRANEY
ADDRESS: 333 LOMAS BLVD. PHONE: (505) 998-0303
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ 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)
☐ ENGINEER'S CERTIFICATION (TCL)
☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:
☐ SIA / FINANCIAL 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)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 2-18-02 BY: Jackie S. McDowell
Jackie S. McDowell

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 degrees of drainage detail. One or more of the following levels of submittal may be required based on the following:

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

RECEIVED
FEB 13 2002
HYDROLOGY SECTION

McDowell Engineering, Inc.

7820 Beverly Hills Ave. NE
Albuquerque, New Mexico 87122
Telephone: (505)828-2430 Fax: (505)821-4857

LETTER OF TRANSMITTAL

TO: Mike Zamora / Richard Dourte
COA Transportation

DATE: 2-17-02

PROJ. NO.: _____

RE: MARBERRY DEV.

WE ARE SENDING YOU: ☒ Attached ☐ Under separate cover via delivery the following items:

COPIES	DATE	DESCRIPTION
<u>2</u>	<u>2-17-02</u>	<u>Traffic Circulation Layout</u>
<u>1</u>		<u>Transportation Info. Sheet</u>

THESE ARE TRANSMITTED as checked below:

☒ For approval ☐ For your use ☐ As requested ☐ For review and comment

☐ Other _____

REMARKS:

COPY TO: fu

SIGNED: [Signature]
Jackie S. McDowell, P.E.