

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Robert Roughton
Leedshill Herkenhoff
500 Copper Avenue NW Suite 500
Albuquerque, New Mexico 87103

RE: Drainage Plan for Zamora Well No. 2 (E10-D2H) Received June 2, 1997

Dear Mr. Roughton:

I have reviewed the referenced plan and forward the following comment. Please submit documentation from AMAFCA showing their approval for work in their channel.

If you have any questions please call me at 924-3984.

Sincerely,

Carlos A. Montoya
Project Manager

c: Andrew Garcia
File

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Zamora Well No. 2 ZONE ATLAS/DRNG.FILE #: E-10Z / D2H
DRB #: _____ EPC #: Z-9744 WORK ORDER #: _____
LEGAL DESCRIPTION: Tract 10, Santa Fe Village, Unit 2
CITY ADDRESS: None Assigned as of this date
ENGINEERING FIRM: Leedshill Herkenhoff CONTACT: Robert Roughton, P.E.
ADDRESS: 500 Copper Ave, NW, Ste. 500 PHONE: (505) 247-0294
OWNER: City of Albuquerque CONTACT: Mike E. Mendoza
ADDRESS: _____ PHONE: (505) 857-8244
ARCHITECT: Same CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: Albuquerque Surveying Co., Inc. CONTACT: Vlad Jirik, P.L.S.
ADDRESS: 2119 Menaul PHONE: (505) 884-2036
CONTRACTOR: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETINGS:

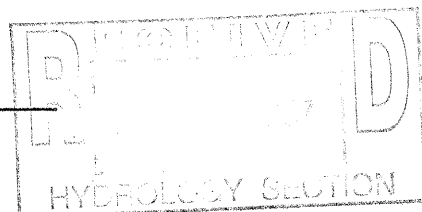
☒ YES
☐ NO
☒ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT 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
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: Revision No. 1, April 1, 1997

BY: R. E. Roughton
Vicki Dery 5/30/97



COA/HYDROLOGY DRAINAGE CALCULATIONS

File: g:\data\projects\zamora\hydro.wk4

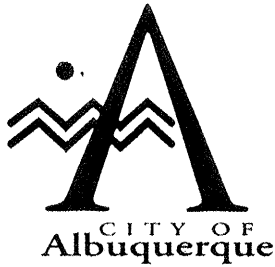
Project: Zamora Well No. 2 - EPC Plans

Date: 28-May-97

Precipitation Zone (Enter 1-4 from Table A-1): 1

Design Storm Event (Enter 2, 10, or 100): 100

Basin #	Treatment	Existing			Proposed			Subtotal	
		Area (SF)	Area (AC)	Qp (CFS)	Area (SF)	Area (AC)	Qp (CFS)	Existing	Proposed
1	A	0	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.8635
	B	0	0.0000	0.0000	3,105	0.0700	0.1421		
	C	0	0.0000	0.0000	6,752	0.1600	0.4592		
	D	0	0.0000	0.0000	2,614	0.0600	0.2622		
2	A	9,776	0.2200	0.2838	0	0.0000	0.0000	0.7143	0.2583
	B	0	0.0000	0.0000	0	0.0000	0.0000		
	C	6,467	0.1500	0.4305	3,772	0.0900	0.2583		
	D	0	0.0000	0.0000	0	0.0000	0.0000		
	A	0	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000
	B	0	0.0000	0.0000	0	0.0000	0.0000		
	C	0	0.0000	0.0000	0	0.0000	0.0000		
	D	0	0.0000	0.0000	0	0.0000	0.0000		
	A	0	0.0000	0.0000	0	0.0000	0.0000	0.0000	0.0000
	B	0	0.0000	0.0000	0	0.0000	0.0000		
	C	0	0.0000	0.0000	0	0.0000	0.0000		
	D	0	0.0000	0.0000	0	0.0000	0.0000		
TOTALS		16,243	0.3700	0.7143	16,243	0.3800	1.1218	0.7143	1.1218



August 4, 1997

Martin J. Chávez, Mayor

Robert E. Roughton, P.E.
Leedshill-Herkenhoff, Inc
500 Copper Ave. NW
Suite 500
Albuquerque, NM 87102

**RE: ZAMORA WELL NO. 2 (E10-D2H). GRADING AND DRAINAGE PLAN FOR SITE
DEVELOPMENT PLAN FOR BUILDING PERMIT AND BUILDING PERMIT APPROVAL.
ENGINEER'S STAMP DATED MAY 30, 1997.**

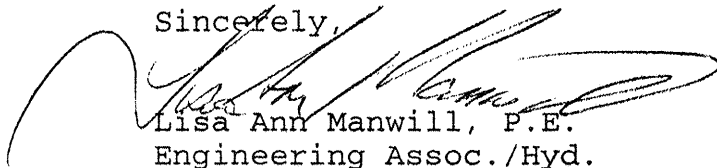
Dear Mr. Roughton:

Based on the information provided on your July 25, 1997 submittal, the above referenced project is approved for Site Development Plan for Building Permit and Building Permit.

Prior to Certificate of Occupancy approval, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,



Lisa Ann Manwill, P.E.
Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



DRAINAGE INFORMATION SHEET

E-10 00214

PROJECT TITLE: Zamora Well No 2 ZONE ATLAS/DRNG.FILE #: E-10Z

DRB #: _____ EPC #: Z-9744 WORK ORDER #: _____

LEGAL DESCRIPTION: Tract 10, Santa Fe Village, Unit 2

CITY ADDRESS: None assigned as of this date

ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Robert E. Roughton, P.E.

ADDRESS: 500 Copper Avenue, NW, Suite 500, Albuquerque, 87102 PHONE: (505) 247-0294

OWNER: City of Albuquerque CONTACT: Mike E. Mendoza

ADDRESS: P.O. Box 1293, Albuquerque, 87103 PHONE: (505) 857-8244

ARCHITECT: Same CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Albuquerque Surveying Co., Inc. CONTACT: Vladimir Jirik, P.L.S.

ADDRESS: 2119 Menaul PHONE: (505) 884-2036

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TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☒ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION

☐ OTHER

PRE-DESIGN MEETINGS:

☒ YES

☐ NO

☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ S.DEV. PLAN FOR SUB'D. APPROVAL

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☐ FINAL PLAT APPROVAL

☐ FOUNDATION PERMIT APPROVAL

☒ BUILDING PERMIT APPROVAL

☐ CERTIFICATE OF OCCUPANCY APPROVAL

☐ GRADING PERMIT APPROVAL

☐ PAVING PERMIT

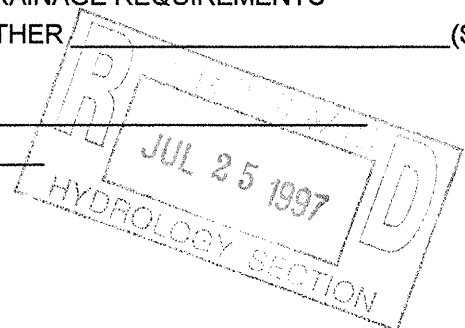
☐ S.A.D. DRAINAGE REPORT

☐ DRAINAGE REQUIREMENTS

☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: _____ Revision No. 3, July 25, 1997

BY: Viviana A. Dwyer, P.E.



ATTACHMENT 4



CITY OF
Albuquerque
Public Works Department
June 12, 1997

RECEIVED

JUN 16 1997

LEEDSHILL - HERKENHOFF, INC.
ALBUQUERQUE

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Robert Roughton
Leedshill Herkenhoff
500 Copper Avenue NW Suite 500
Albuquerque, New Mexico 87103

RE: Drainage Plan for Zamora Well No. 2 (E10-D2H) Received June 2, 1997

Dear Mr. Roughton:

I have reviewed the referenced plan and forward the following comment. Please submit documentation from AMAFCA showing their approval for work in their channel.

If you have any questions please call me at 924-3984.

Sincerely,

Carlos A. Montoya
Project Manager

c: Andrew Garcia
File

Good for You, Albuquerque!

P.O. Box 1293, Albuquerque, New Mexico 87103



ATTACHMENT 5

MICHAEL MURPHY, CHAIR
TIM EICHENBERG, VICE-CHAIR
LINDA OLNSTED, SECRETARY-TREASURER
RONALD D. BROWN, ASST. SECRETARY-TREASURER
DANIEL W. COOK, DIRECTOR

LARRY A. BLAIR
EXECUTIVE ENGINEER



Mr. Robert Roughton
Leedshill-Herkenhoff, Inc.
500 Copper N.W.
Albuquerque, New Mexico 87103

**Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority**

2600 PROSPECT N.E. - ALBUQUERQUE N.M. 87107
TELEPHONE (505) 864-2215

June 19, 1997

Via Fax 242-4845
& Regular mail

Re: Zamora Well Number 2

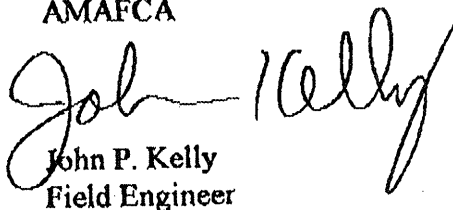
Dear Mr. Roughton:

AMAFCA has reviewed the grading and drainage plan for the subject wellsite. I am pleased that the existing 18" RCP is still in usable condition for the site drainage. Four comments need to be addressed prior to AMAFCA approval:

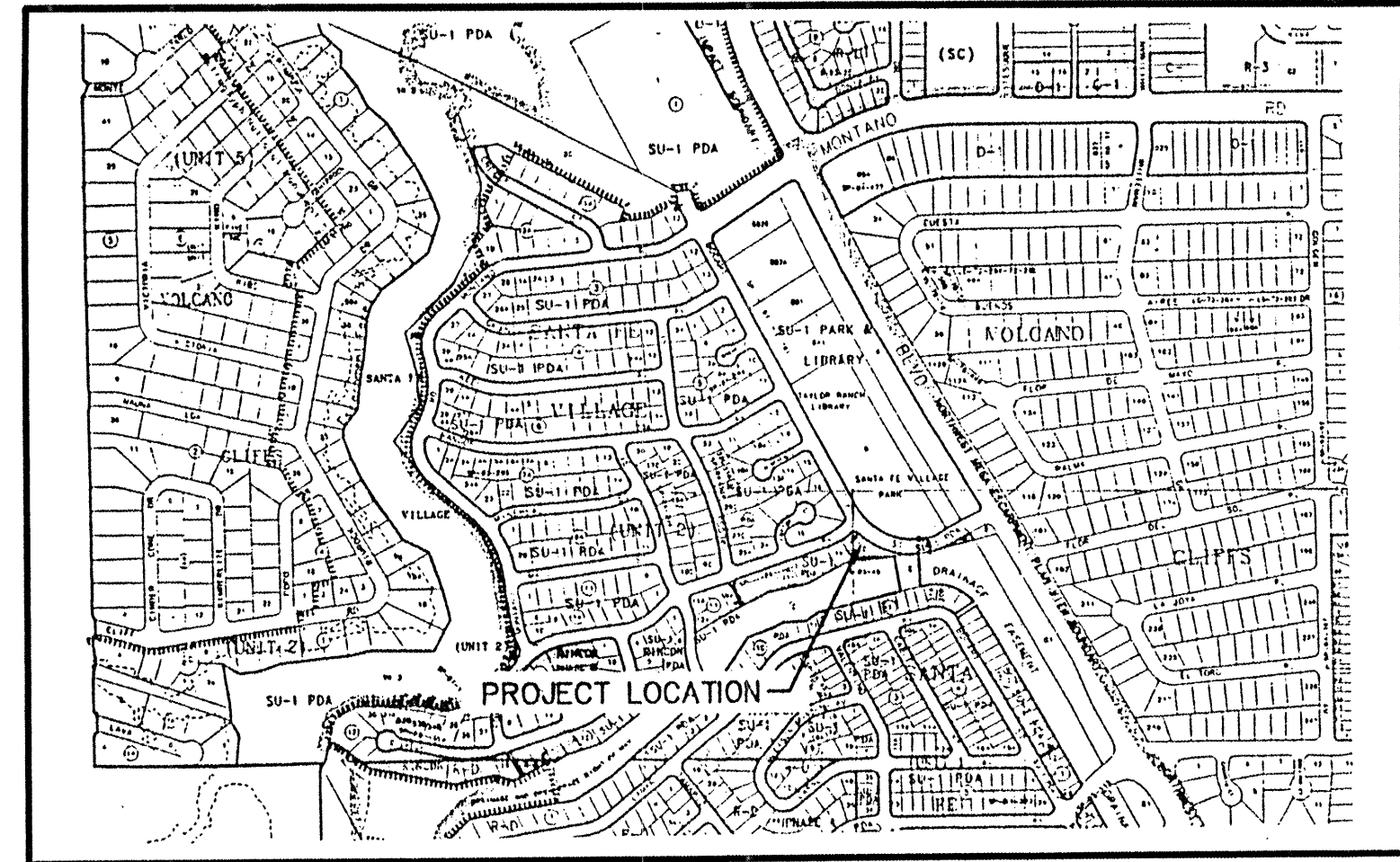
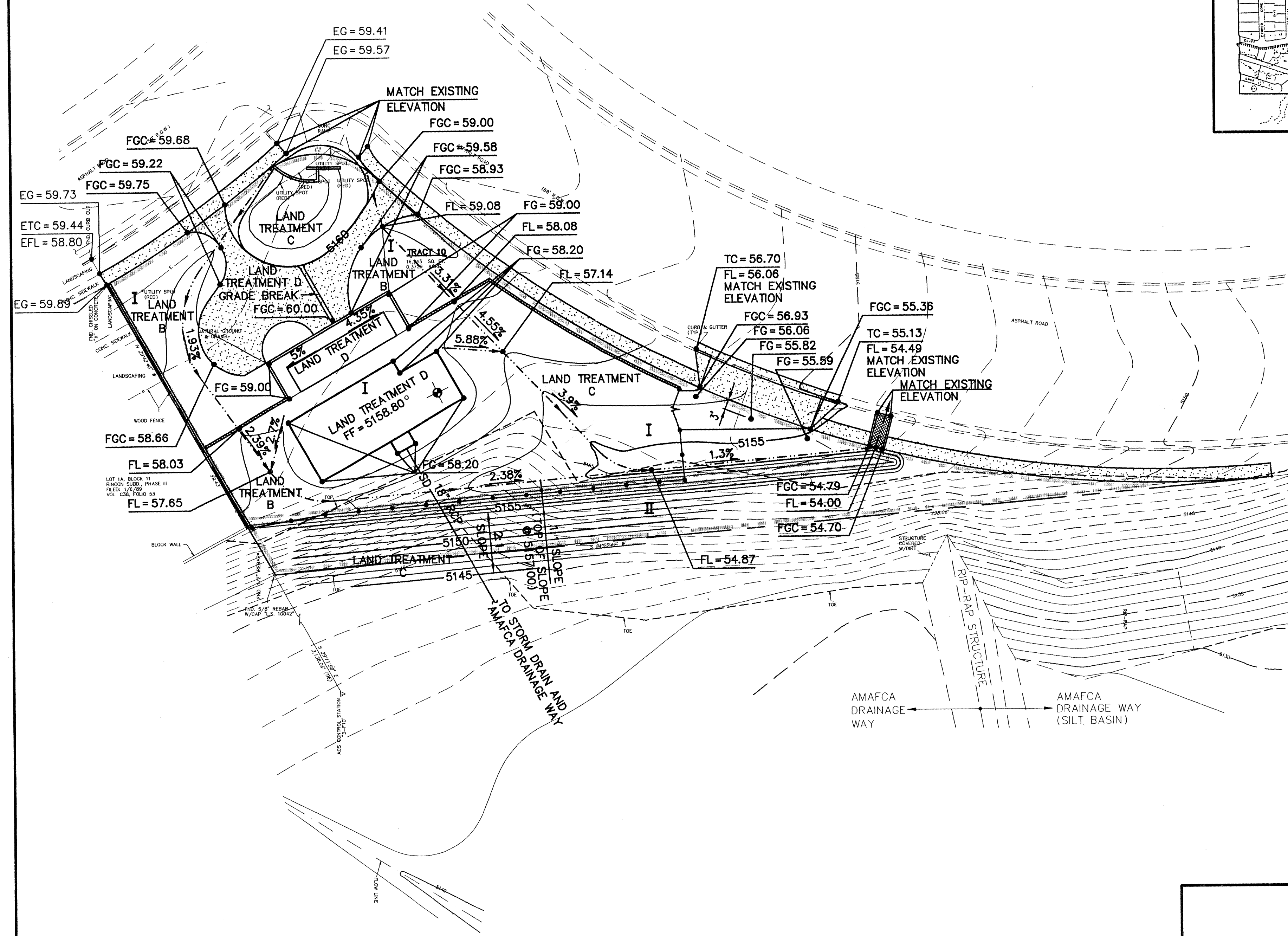
- The fill slope along the north bank of the arroyo shall be installed at 95% compaction (ASTM 1557).
- The slope and all disturbed areas shall be reseeded per the City's westside seed mix. The slope shall then be plated with 2" of 3/4 to 1-1/2" "Santa Ana Tan" gravel as a mulch.
- The toe of the fill slope on the arroyo will be protected with 60' of 3-4' basalt boulders installed at the toe of the slope along elevation 5145. These boulders are available from AMAFCA free of charge.
- The specifications need to include AMAFCA as an additional insured.

If you have any questions, please call.

Sincerely,
AMAFCA


John P. Kelly
Field Engineer

cc Carlos Montoya, City Hydrology



- ### LEGEND
- EXISTING**
- EG = 12.00 OFF SITE ELEVATION
 - ETC = 12.50 TOP OF CURB ELEVATION
 - EFL = 12.00 FLOWLINE ELEVATION
 - SANITARY SEWER MANHOLE
 - STORM DRAIN MANHOLE
 - TELE MH TELEPHONE MANHOLE
 - US(TELE) UNDERGROUND UTILITY SPOT (TELEPHONE)
 - DROP INLET
 - ⊗ WATER VALVE
 - WATER METER
 - ⊗ FIRE HYDRANT
 - ☆ LIGHT
 - ×ELEV1 SPOT ELEVATION
 - ×ELEV2 TOP OF CURB ELEVATION
 - T--- UNDERGROUND TELEPHONE LINE
- PROPOSED**
- TC = 12.50 TOP OF CURB / FLOWLINE ELEVATION
 - FL = 12.00 FLOWLINE ELEVATION
 - FG = 12.00 FINISH GRADE ELEVATION
 - FGC = 12.90 FINISH GRADE CONCRETE
 - FLOW DIRECTION
 - 12--- PROPOSED 1' INTERVAL CONTOUR
 - DRAINAGE SWALE
 - LAND TREATMENT BOUNDARY
 - PROPERTY LINE
 - DRAINAGE BASIN BOUNDARY I
 - DRAINAGE BASIN BOUNDARY II
- CONCRETE**
- BUILDING**

THE FOLLOWING CONSIDERATIONS AND DESIGN INTENT ARE INCORPORATED IN THIS DRAINAGE PLAN:

FLOOD PLAIN — THIS SITE IS SHOWN ON PANEL 114 OF 825, MAP NUMBER 35001C0114D OF THE FEMA FLOOD INSURANCE RATE MAPS, EFFECTIVE SEPTEMBER 20, 1996, AS A ZONE X AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.

PAVED AREA — A LARGE PORTION OF THE AREA BETWEEN THE WELL HOUSE AND FOXFORD AVE. IS CONCRETE PAVING. THIS AREA IS IMMEDIATELY NORTH OF THE BUILDING (BASIN I) AND DRAINS SOUTH AND SOUTHEAST TO THE SIDEWALK CULVERT IN BOGART STREET.

LANDSCAPED AREAS — AREAS NORTHWEST AND NORTHEAST OF THE WELL HOUSE ARE LANDSCAPED. THESE AREAS (BASIN I) DRAIN TO THE CINDER AREA BEHIND THE HOUSE AND THEN TOWARD THE SIDEWALK CULVERT IN BOGART STREET.

CINDER AREA — THE AREA SOUTH OF THE WELL HOUSE IS CINDER. THIS AREA (BASIN I) DRAINS TO THE SIDEWALK CULVERT IN BOGART STREET.

A 2' HIGH BERM (COMPACTED SOIL) SOUTH OF THE WELLHOUSE WILL DIRECT ON-SITE DRAINAGE TO THE SIDEWALK CULVERT IN BOGART STREET.

THE OPERATIONAL AREAS OF THE SITE WILL BE SURROUNDED BY A 6' HIGH CMU WALL ON THE NORTH AND EAST SIDES OF THE WELLHOUSE AND SWITCH/METER/TRANSFORMER PAD AND A DECORATIVE FENCE ON TOP OF THE 2' HIGH BERM.

THE STEEP AREA ON THE SOUTH SIDE OF THE 2' HIGH BERM (BASIN II) WILL DRAIN TO THE SAN ANTONIO ARROYO.

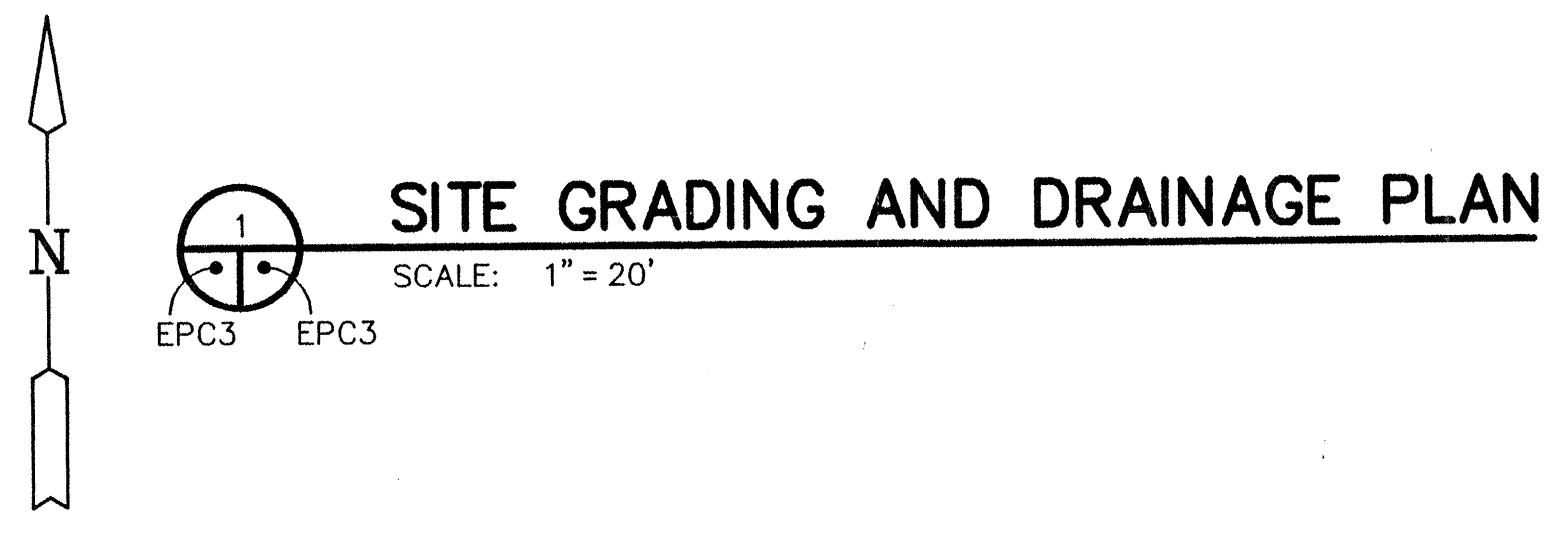
NOTICE TO CONTRACTOR

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS" ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED FOR PUBLIC WORKS CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

DRAINAGE CALCULATIONS				
100 YEAR-6 HOUR STORM				
REFERENCE: COA DEVELOPMENT PROCESS MANUAL, CHAPTER 22				
PRECIPITATION ZONE 1				
DESCRIPTION	EXISTING DRAINAGE BASIN	PROPOSED DRAINAGE BASINS		
		I	II	TOTAL
LAND TREATMENT A (NATIVE) AREA, AC. Q, cfs (AREA x 1.29)	0.2244 0.2838	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000
LAND TREATMENT B (LANDSCAPED AREA) AREA, AC. Q, cfs (AREA x 2.03)	0.0000 0.0000	0.0713 0.1421	0.0000 0.0000	0.0713 0.1421
LAND TREATMENT C (COMPACTED SOIL AND STEEP SLOPES) AREA, AC. Q, cfs (AREA x 2.87)	0.1485 0.4305	0.1550 0.4592	0.0866 0.2583	0.2416 0.7175
LAND TREATMENT D (ROOF, PAD & PAVEMENT) AREA, AC. Q, cfs (AREA x 4.37)	0.0000 0.0000	0.0600 0.2622	0.0000 0.0000	0.0600 0.2622
TOTAL AREA, AC. Q, cfs	0.3729 0.7143	0.2863 0.8635	0.0866 0.2583	0.3729 1.1218

0 10' 20' 40' 60'
1" = 20'

LEEDSHILL-HERKENHOFF, INC
500 Copper Avenue NW
P.O. Box 1217
Albuquerque, NM 87103
(505)247-0294



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ZAMORA WELL NO. 2
SITE GRADING AND DRAINAGE PLAN

Design Review Committee City Engineer Approval

City Project No. 4912-01 Zone Map No. E-10-Z Sheet 5 Of 5

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	INSPECTOR	DATE	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.	RELOCATION OF BUILDING	REMARKS	REVISIONS	DATE
WORKED BY	DATE	ACCEPTANCE BY	DATE	NO.	BY	DATE	NO.	NO.	BY	DATE	NO.	5-97	3-97	1-97	5/97
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	NO.	NO.	NO.
MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	DATE	RECORDED BY	DATE	NO.	DATE	RECORDED BY	DATE	NO.	DATE	RECORDED BY	DATE	NO.	DATE