



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 13, 2001

Shahab Biazar, P.E.
Advanced Engineering & Consulting
10205 Snowflake Ct NW
Albuquerque, New Mexico 87114

RE: ALAMEDA BUSINESS PARK LOT 47 (ROMAN FOUNTAINS) (C-16/D6L)
(8600 Paseo Alameda NE)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 2/12/2001
ENGINEERS CERTIFICATION DATED 9/10/2001

Dear Mr. Biazar:

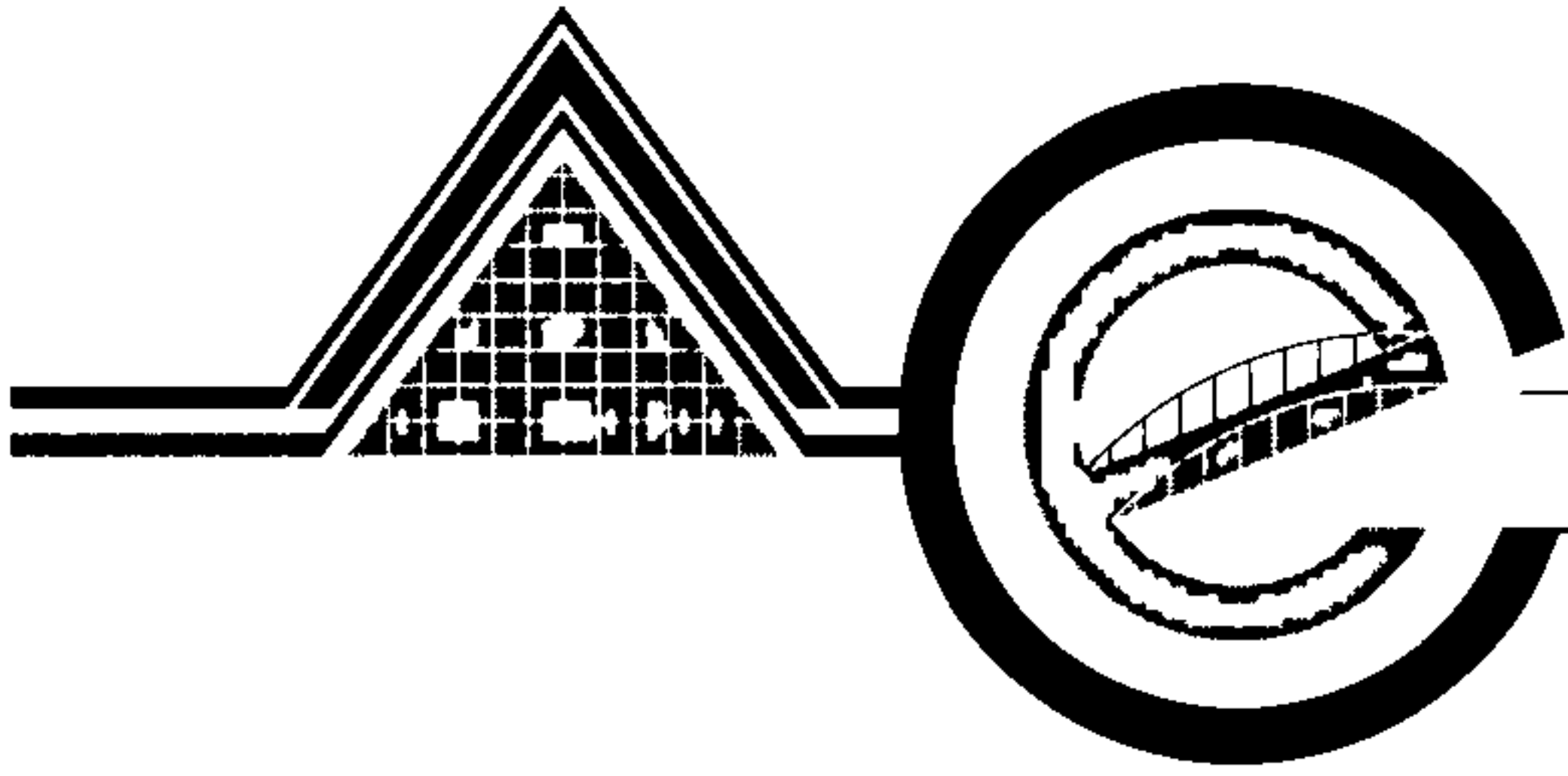
Based upon the information provided in your Engineers Certification submittal dated 9/12/2001, the above referenced site is approved for Permanent Certificate of Occupancy.

If I can be of further assistance, please contact me at 924-3981.

Sincerely,

Teresa A. Martin
Hydrology Plan Checker
Public Works Department
Bub

C: Vickie Chavez, COA
approval file
drainage file



ADVANCED ENGINEERING and CONSULTING, LLC

*Consulting
Design
Development
Management
Inspection*

September 12, 2001

Carlos A. Montoya
City of Albuquerque
600 Second Street NW
Albuquerque, New Mexico 87102

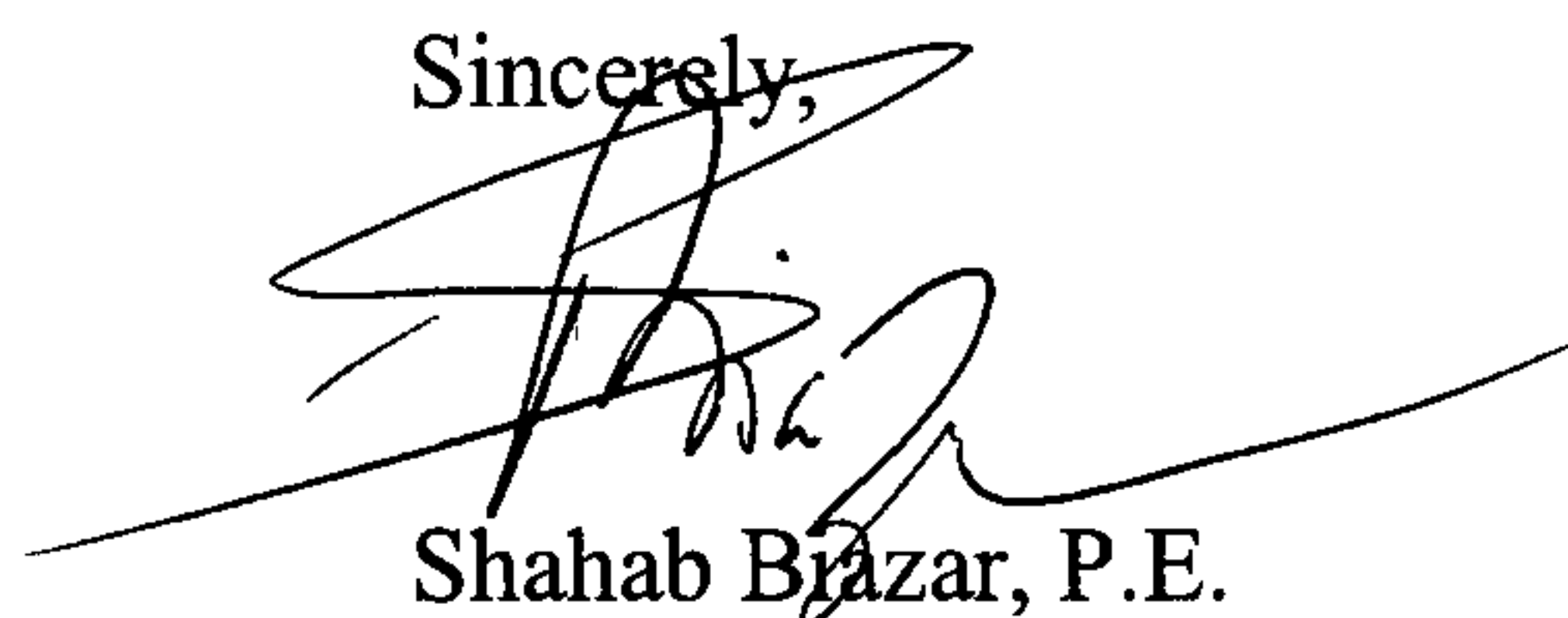
Re: Final Certification of Grades for Lot 47, Alameda Business Park (C16/D6L)
(8600 Paseo Alameda NE)

Dear Mr. Montoya:

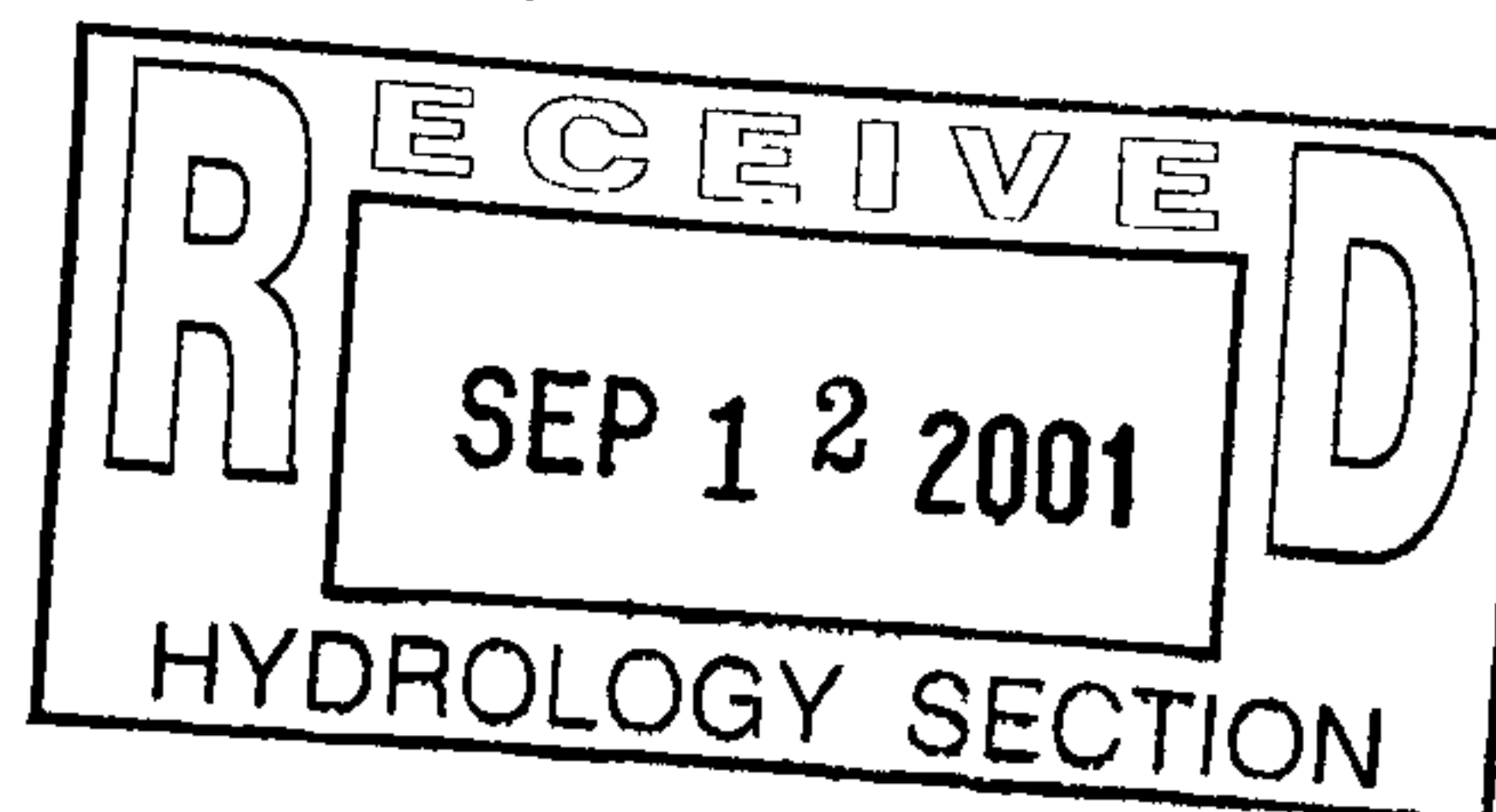
Enclosed please find one copy of the as-built Grading Plan for the above mentioned site. The grades are built according to the grading & drainage plan approved with engineering stamp date February 12, 2001. The runoff from the drainage pipe drains to the back of the inlet instead of the back of the sidewalk culvert. Therefore, the sidewalk was eliminated from the plans. See grading plan for changes. Storm drain Maintenance has signed and approved the changes on the drainage pipe.

Should you have any questions, please do not hesitate to contact our office.

Sincerely,



Shahab Bazar, P.E.



DRAINAGE INFORMATION SHEET

PROJECT TITLE: <u>Lot 47, Alameda Business Park</u>	ZONE ATLAS/DRNG. FILE #: <u>C-16 / D6L</u>
DRB #: _____	EPC #: _____
WORK ORDER #: _____	
LEGAL DESCRIPTION: <u>Lot 47, Alameda Business Park</u>	
CITY ADDRESS: <u>8600 Paseo Alameda NE</u>	
ENGINEERING FIRM: <u>Advanced Engineering and Consulting, LLC</u>	CONTACT: <u>Shahab Biazar</u>
ADDRESS: <u>10205 Snowflake Ct. NW Alb., NM 87114</u>	PHONE: <u>(505) 899-5570</u>
OWNER: _____	CONTACT: _____
ADDRESS: _____	PHONE: _____
ARCHITECT: _____	CONTACT: _____
ADDRESS: _____	PHONE: _____
SURVEYOR: _____	CONTACT: _____
ADDRESS: _____	PHONE: _____
CONTRACTOR: <u>Sadler Southwest Ltd.</u>	CONTACT: <u>Lou Sadler</u>
ADDRESS: <u>P. O. Box 21640, Alb., NM 87154-1640</u>	PHONE: _____

TYPE OF SUBMITTAL:

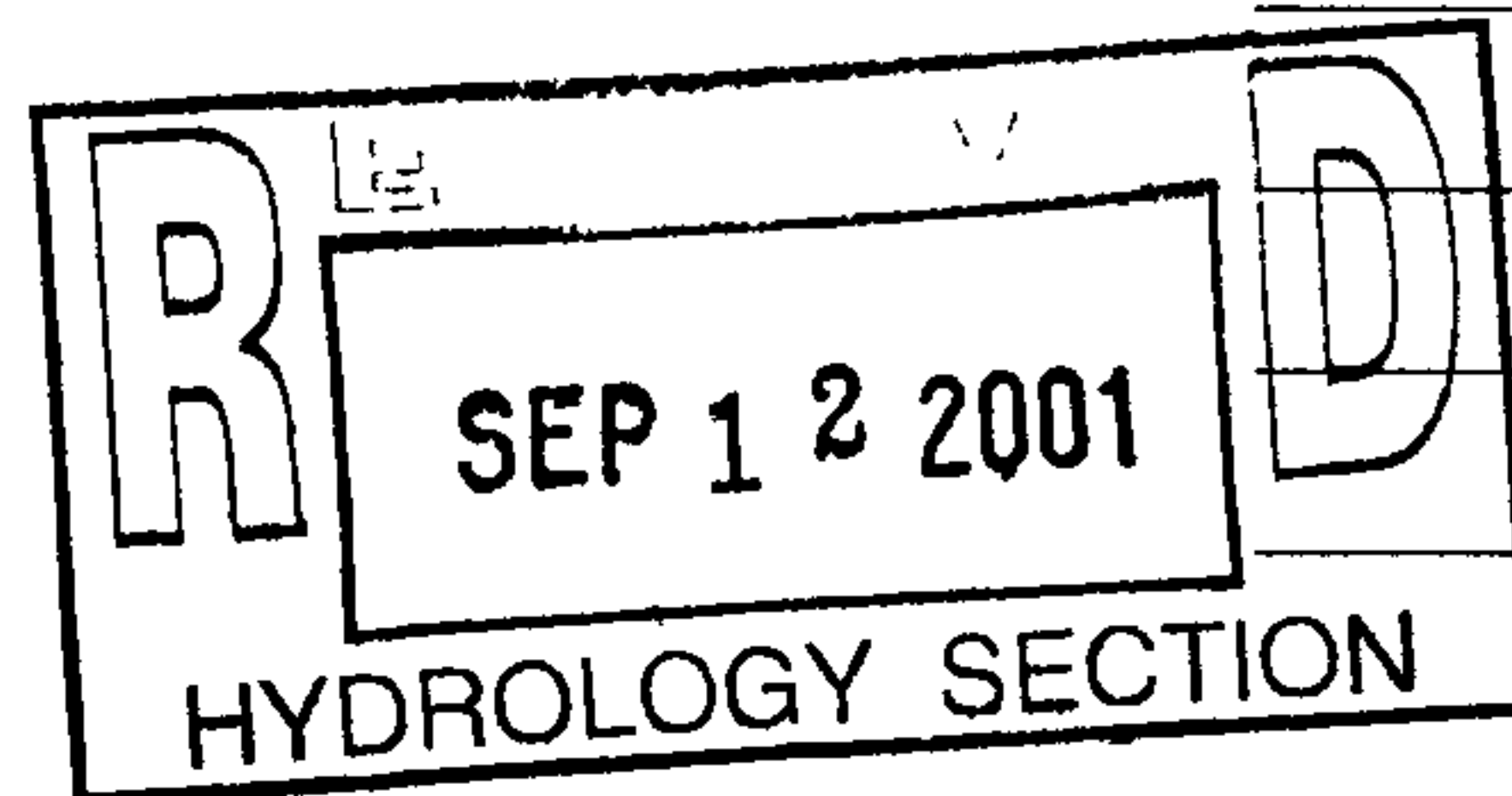
<input type="checkbox"/>	DRAINAGE REPORT
<input type="checkbox"/>	DRAINAGE PLAN
<input type="checkbox"/>	CONCEPTUAL GRADING & DRAINAGE PLAN
<input type="checkbox"/>	GRADING PLAN
<input type="checkbox"/>	EROSION CONTROL PLAN
<input checked="" type="checkbox"/>	ENGINEER'S CERTIFICATION
<input checked="" type="checkbox"/>	AS-BUILT GRADES

PRE-DESIGN MEETING:

<input type="checkbox"/>	YES
<input type="checkbox"/>	NO
<input type="checkbox"/>	COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

<input type="checkbox"/>	SKETCH PLAN APPROVAL
<input type="checkbox"/>	PRELIMINARY PLAT APPROVAL
<input type="checkbox"/>	S. DEV. PLAN FOR SUB'D. APPROVAL
<input type="checkbox"/>	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
<input type="checkbox"/>	SECTOR PLAN APPROVAL
<input type="checkbox"/>	FINAL PLAT APPROVAL
<input type="checkbox"/>	FOUNDATION PERMIT APPROVAL
<input type="checkbox"/>	BUILDING PERMIT APPROVAL
<input checked="" type="checkbox"/>	CERTIFICATE OF OCCUPANCY APPROVAL
<input type="checkbox"/>	GRADING PERMIT APPROVAL
<input type="checkbox"/>	PAVING PERMIT APPROVAL
<input type="checkbox"/>	S. A. D. DRAINAGE REPORT
<input type="checkbox"/>	DRAINAGE REQUIREMENTS
<input type="checkbox"/>	Other

**DATE SUBMITTED:** 09 / 12 / 01**BY:** SHAHAB BIAZAR



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 12, 2001

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

**RE: Grading and Drainage Plan for Lot 47 Alameda Business Park (C16-D6L) Dated
February 12, 2001**

Dear Mr. Biazar:

The above referenced plan dated February 12, 2001 is approved for Rough Grading ,
Building Permit, and SO #19.

Upon completion of the project the engineer needs to certify the construction. A copy of this
drainage plan and approval letter will be submitted to the Excavation Permit desk at City Hall.
Please advise your contractor that the sidewalk culvert will need to be inspected prior to
Certificate of Occupancy release.

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

Sincerely,

Carlos A. Montoya
City/County Floodplain Administrator

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Lot 47, Alameda Business Park ZONE ATLAS/DRNG. FILE #: C-16/D6L

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Lot 47, Alameda Business Park

CITY ADDRESS: _____

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: Sadler Southwest Ltd. CONTACT: Lon Sadler

ADDRESS: P. O. Box 21640, Alb., NM 87154-1640 PHONE: _____

TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT

_____ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

☒ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

_____ OTHER

PRE-DESIGN MEETING:

_____ YES

_____ NO

_____ COPY PROVIDED

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

☒ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

_____ S. A. D. DRAINAGE REPORT

_____ DRAINAGE REQUIREMENTS

☒ SO-19

DATE SUBMITTED: 02 / 12 / 01BY: SHAHAB BIAZAR

RECEIVED
FEB 12 2001
HYDROLOGY SECTION



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 6, 2001

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

**RE: Grading and Drainage Plan for Lot 47 Alameda Business Park (C16-D6L) Dated
January 10, 2001**

Dear Mr. Biazar:

I have reviewed the referenced drainage plan received January 12, 2001 and forward the following comments.

1. The referenced plan can be approved for Site Development Plan for Building Permit. However, the following comments need to be address prior to Building Permit approval.
2. The existing inlet cannot be changed to a "D" inlet without other improvements. The proposed inlet does not have the capacity of the existing inlet. Please suggest other locations for the replacement inlet then come in and talk to me. We are proposing to use a modified SO 19 process for the new replacement inlet.
3. The proposed modified SO 19 process should have the following. Submit two sets of prints for Hydrology and one for Pam Lujan at Excavation Permits. The set of prints which the contractor takes out at Excavation Permits will be inspected and signed by the inspector at Arroyo Maintenance. A Work Order number will need to be obtained for the process to follow the project. Certificate of Occupancy cannot be released until the owner's engineer certifies the project. A mylar of the project will need to be submitted to Hydrology so they can be turned over Maps and Records. The mylar will need to have as-built information.

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

Sincerely,

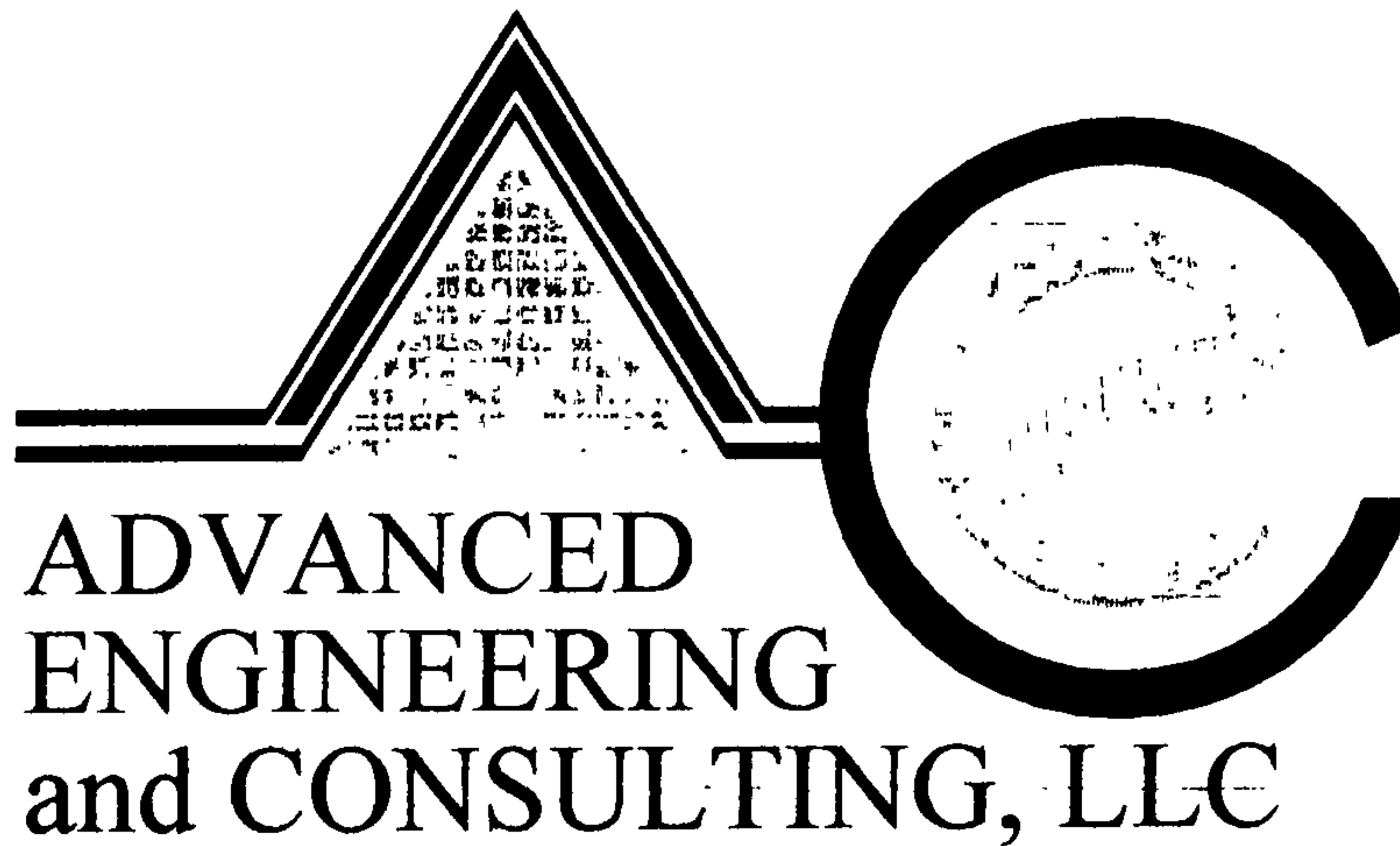
Carlos A. Montoya

City/County Floodplain Administrator

DRAINAGE REPORT
FOR

Lot 47.
Alameda Business Park

Prepared by:



10205 Snowflake Ct. NW
Albuquerque, New Mexico 87114

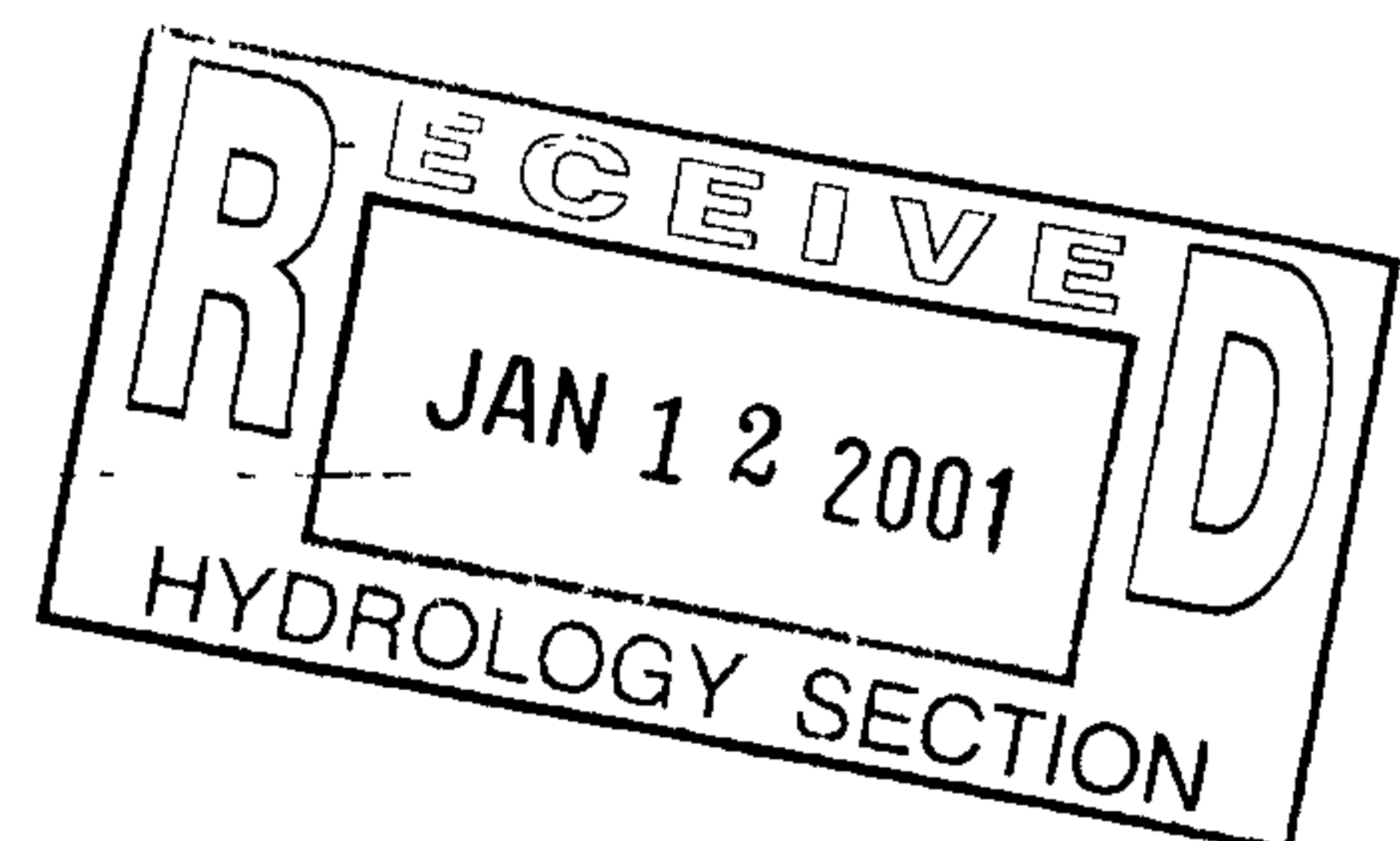
Prepared For:

Sadler Southwest Ltd.
P. O. Box 21640
Albuquerque, NM 87154-1640

January, 2001



Shahab Biazar
PE NO. 13479



Location

Lot 47, Alameda Business Park, is located at southeast corner of Paseo Alameda and Calle Alameda. See attached Vicinity Map C-16-Z for the location of the site.

Purpose

The owners are proposing to place new buildings on this Tract. Therefore, we are requesting Site Plan, Site Plan for Building permit, Building permit, an SO-19, and grading permit approval.

Existing Drainage Conditions

The site falls within drainage Basin 12 of the Alameda Business Park (City Drainage number C-16/D6). A copy of this Overall Basin Map is included with this submittal. The site under the existing conditions (100-year, 6-hour storm) generates 0.98 cfs. The runoff drains west and south to Paseo Alameda and Calle Alameda. The runoff in Paseo Alameda and Calle Alameda are intercepted by the storm sewer inlet in the street and then routed to an existing pond located between lots 8 and 9 on the west side of the Paseo Alameda. The runoff from Lot 45 located to the east side of this lot drain towards this lot and then to Calle Alameda.

The site falls within FIRM Map No. 35001C 0136 D. The map shows that the site lies within, Zone X, an area outside the 500-year flood plain.

Proposed Conditions and On-Site Drainage Management Plan

The drainage patterns on site will remain the same. The runoff on site, under a developed runoff of 2.73 cfs will continue to drain west and south to Paseo Alameda and Calle Alameda. A berm will be place along the easterly property line to route the runoff from Lot 45 to the Calle Alameda.

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 2

DEPTH (INCHES) @ 100-YEAR STORM

$$P_{60} = 2.01 \text{ inches}$$

$$P_{360} = 2.35 \text{ inches}$$

$$P_{1440} = 2.75 \text{ inches}$$

DEPTH (INCHES) @ 10-YEAR STORM

$$\begin{aligned} P_{60} &= 2.01 \times 0.667 \\ &= 1.34 \text{ inches} \end{aligned}$$

$$P_{360} = 1.57$$

$$P_{1440} = 1.83$$

See the summary output from AHYMO calculations.

Also see the following summary tables.

RUNOFF CALCULATION RESULTS

BASIN	EXISTING		
	AREA (SF)	AREA (AC)	AREA (MI²)
LOT 47	27,214.75	0.6248	0.000976

BASIN	EXISTING	
	Q-100 CFS	Q-10 CFS
LOT 47	0.98	0.23

BASIN	PROPOSED	
	Q-100 CFS	Q-10 CFS
LOT 47	2.73	1.74

* ZONE 2

* 100-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS) *

START TIME=0.0

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN

RAIN DAY=2.75 IN DT=0.03333 HR

COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.000976 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

* 10-YEAR, 6-HR STORM (UNDER EXISTING CONDITIONS) *

START TIME=0.0

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.34 IN RAIN SIX=1.57 IN

RAIN DAY=1.83 IN DT=0.03333 HR

COMPUTE NM HYD ID=1 HYD NO=111.0 AREA=0.000976 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 TIME=0.0

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN

RAIN DAY=2.75 IN DT=0.03333 HR

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000976 SQ MI

PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00

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=1.34 IN RAIN SIX=1.57 IN

RAIN DAY=1.83 IN DT=0.03333 HR

COMPUTE NM HYD ID=1 HYD NO=111.1 AREA=0.000976 SQ MI

PER A=0.00 PER B=15.00 PER C=0.00 PER D=85.00

TP=0.1333 HR MASS RAINFALL=-1

FINISH

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = 2039

- VERSION: 1997.02d

RUN DATE (MON/DAY/YR) =01/10/2001
USER NO.= AHYMO-I-9702c01000R31-AH

[illegible]