

CITY OF ALBUQUERQUE



June 28, 2010

Shahab Biazar, P.E.
Advanced Engineering & Consulting, LLC
4416 Anaheim Avenue NE
Albuquerque, NM 87113

**Re: 16 Unit Apartments for Ahmet Tiryaki, 2801 12th St. NW,
Request for Permanent C.O. - Approved
Engineer's Stamp dated: 1-13-09 (H-13/D051)
Certification dated: 06-25-10**

Dear Mr. Biazar,

Based upon the information provided in the Certification received 6-25-10, the above referenced Certification is approved for a release of a Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

Timothy E. Sims,
Plan Checker—Hydrology Section
Development and Building Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

C: CO Clerk—Katrina Sigala
File

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: 16 UNIT APARTMENTS FOR AHMET TIRYAKI ZONE ATLAS/DRG. FILE #: H13 / D51
DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LOT NUMBERED 5-A-1-A OF THE COLEMAN ADDITION
CITY ADDRESS: 2801 12th N.W.

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC CONTACT: Shahab Biazar
ADDRESS: 4416 Anaheim Ave., NE PHONE: (505) 899-5570
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87113

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

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

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

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

CHECK TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL
____ 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:

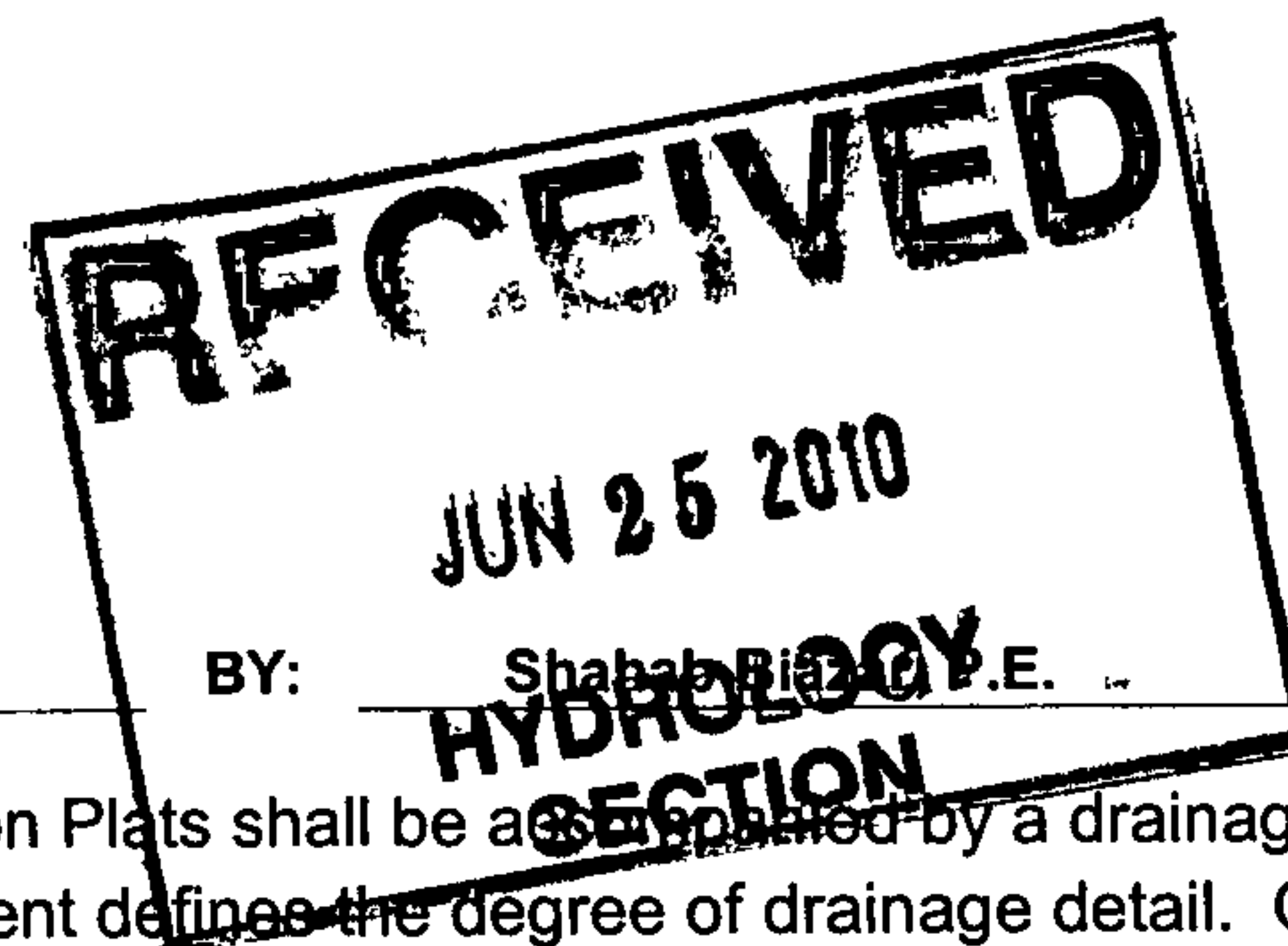
____ SIA / FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D. APPROVAL
____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY (PERM.)
____ CERTIFICATE OF OCCUPANCY (TEMP.)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

____ YES
☒ NO
____ COPY PROVIDED

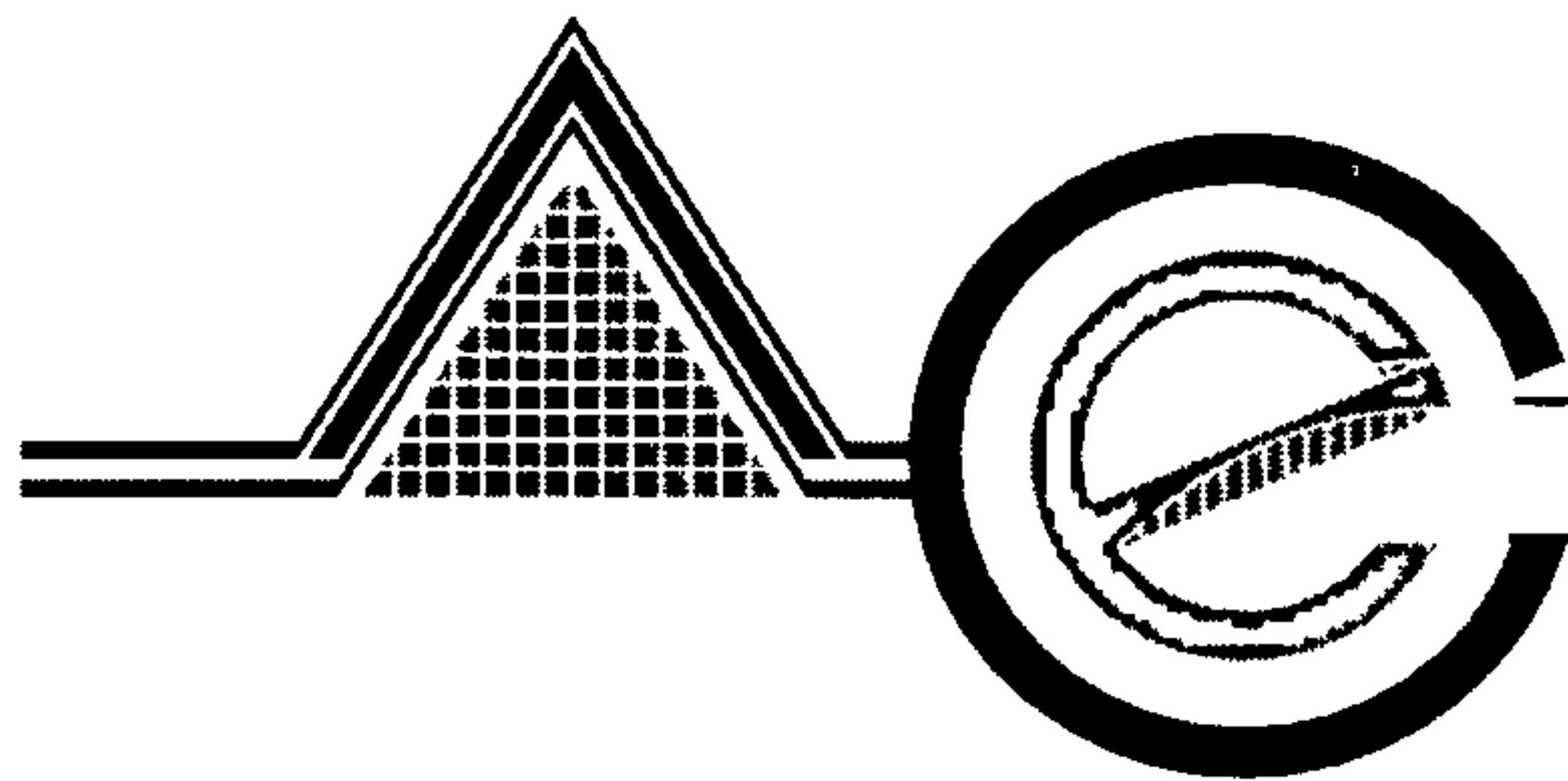
DATE SUBMITTED: 6 / 25 / 2010

BY: Shahab Biazar, P.E.



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

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5)
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more



ADVANCED ENGINEERING and CONSULTING, LLC

*Consulting
Design
Development
Management
Inspection
Surveying*

June 25, 2010

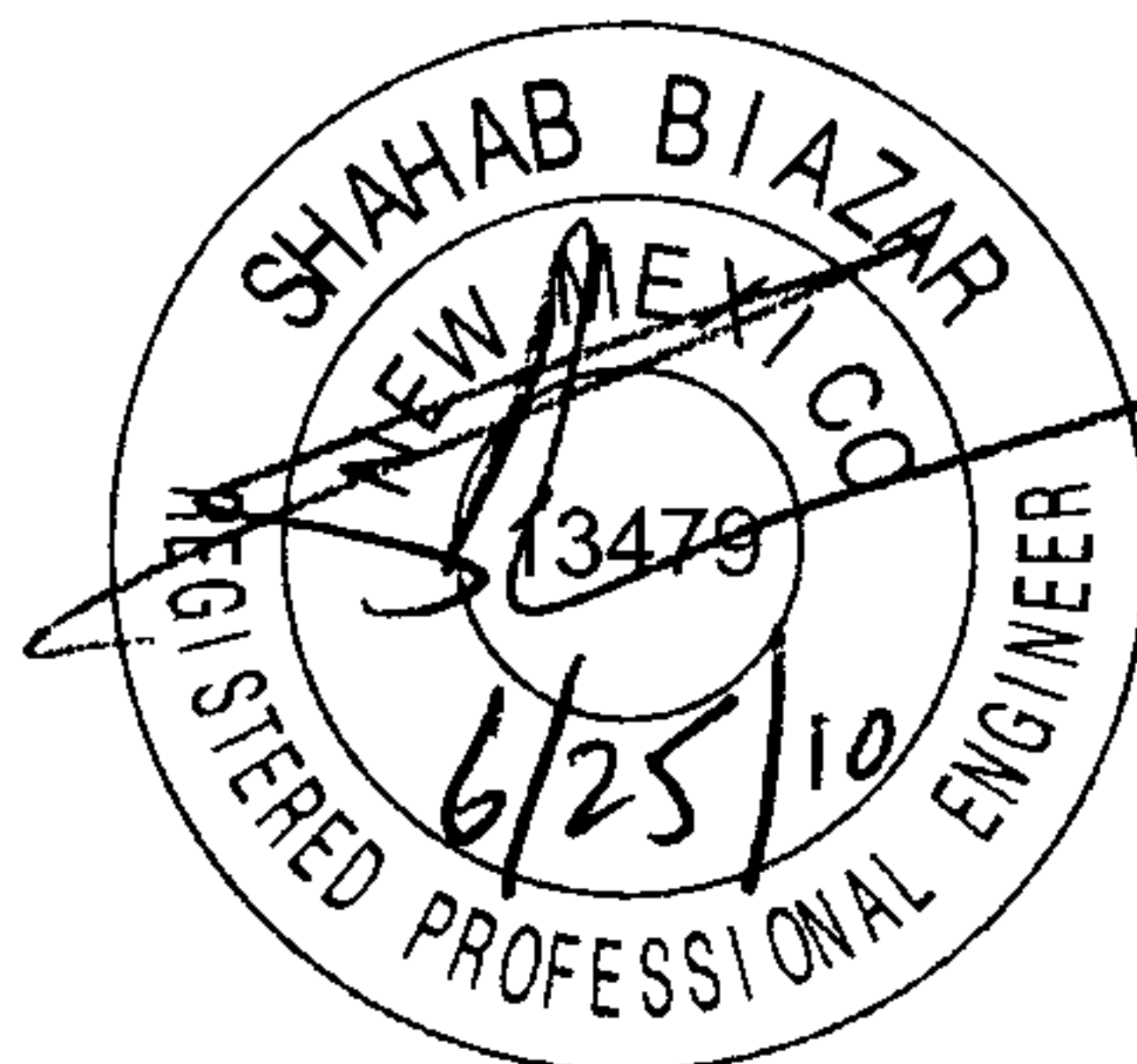
Mr. Curtis A. Cherne, P.E.
Sr. Engineer, Planing Dept.
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102

RE: FINAL CERTIFICATION OF OCCUPANCY FOR 16 UNIT APARTMENTS FOR
AHMET TIRYAKI, LOT NUMBERED 5-A-1-A OF THE COLEMAN ADDITION
LOCATED AT 2801 12TH N.W. (H13 / D051)

Dear Mr. Cherne:

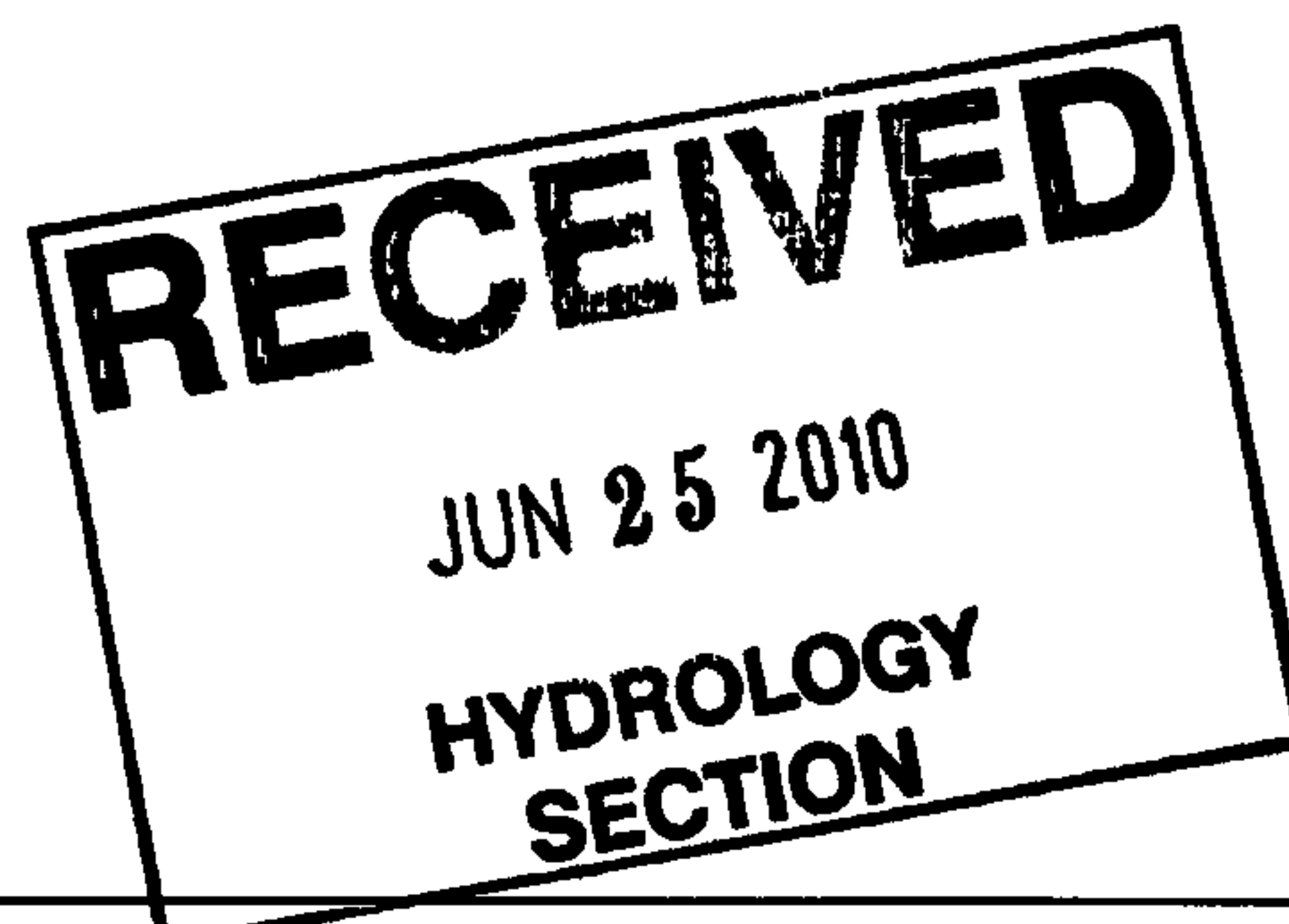
This letter is in request of Final Certification of Occupancy for the above mentioned project. I Shahab Biazar, NMPE, of the Advanced Engineering, LLC hereby certify that project has been graded and will drain in substantial compliance with and design intent of the approved plan dated 01/13/2009. All the pavement and the sidewalk culverts are in place. See enclosed plan for as-built grades.

Please contact me if there are any questions or concerns regarding this submittal.



Sincerely yours,

Shahab Biazar, P.E.



CITY OF ALBUQUERQUE



June 10, 2010

Roger Cinelli, R.A.
Roger Cinelli and Associates
2418 Manuel Torres Ln. NW
Albuquerque, NM 87107-3060

**Re: 16 Unit Apartment Complex for Ahmet Tiryaki, 2801 12th Street NW,
Permanent Certificate of Occupancy – Transportation Development
Architect's Stamp dated 11-17-08 (H13-D051)
Certification dated 06-08-10**

Dear Mr. Cinelli,

PO Box 1293

Based upon the information provided in your submittal received 06-08-10, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy. This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

Albuquerque

If you have any questions, you can contact me at 924-3991.

NM 87103

Sincerely,

Kristal D. Metro, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

www.cabq.gov

C: CO Clerk
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)

PROJECT TITLE: 16 UNIT APARTMENT PROJECT FOR AHMET TIRYAKI ZONE MAP: H. 13/0051
 DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: LOT 5-A-1-A COLEMAN ADDITION
 CITY ADDRESS: 2801 12th ST. H.W.

ENGINEERING FIRM: ADVANCED ENGINEERING CONTACT: SHAHAB
 ADDRESS: 4416 ANAHEIM N.E. PHONE: 899-5570
 CITY, STATE: ABQ, NM ZIP CODE: 87113

OWNER: AHMET TIRYAKI CONTACT: AHMET
 ADDRESS: 1815 CAGUA PL. NE PHONE: 615-4278
 CITY, STATE: ABQ, NM ZIP CODE: 87110

ARCHITECT: ROGER CINELLI & ASSOC. CONTACT: ROGER
 ADDRESS: 2418 MANUEL TORRES UN PHONE: 243-8211
 CITY, STATE: ABQ, NM ZIP CODE: 87107

SURVEYOR: SANB3 ENGINEERING FIRM CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: DAHA CONTACT: AHMET
 ADDRESS: 1815 CAGUA PL. NE. PHONE: 615-4278
 CITY, STATE: ABQ, NM ZIP CODE: 87110

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT
- ☒ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ OTHER (SPECIFY) _____

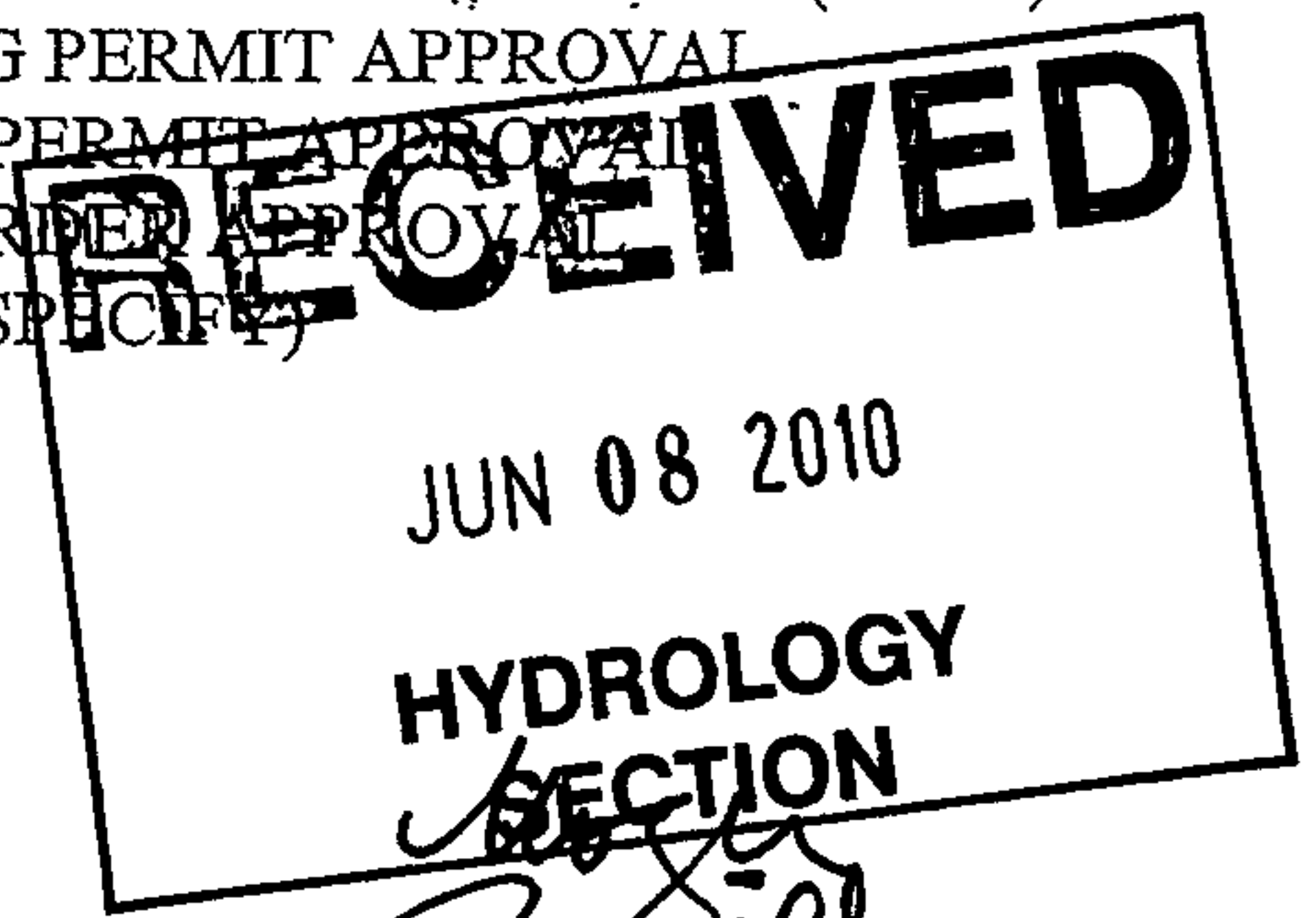
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. 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: JUNE 8, 2010 BY: [Signature]



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree 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 (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

Cinelli

ARCHITECTS

ROGER CINELLI & ASSOCIATES, INC. 2418 MANUEL TORRES LANE NW ALBUQUERQUE, NEW MEXICO 87107
OFFICE 505-243-8211 FAX 505-243-8196

6/8/10

CITY OF ALBUQUERQUE
TRANSPORTATION DEVELOPMENT SECTION
PLAZA DEL SOL BUILDING
600 2ND STREET N.W.
ALBUQUERQUE, NEW MEXICO 87102

RE: TRAFFIC CIRCULATION LAYOUT – 16 UNIT APARTMENT PROJECT FOR AHMET TIRYAKI – 2801
12TH ST. NW, ALBUQUERQUE, NEW MEXICO ZA PAGE H-13 – DATED NOVEMBER 17, 2008,
APPROVED NOVEMBER 24, 2008 - **FINAL SITE CERTIFICATION**

DEAR SIRs,

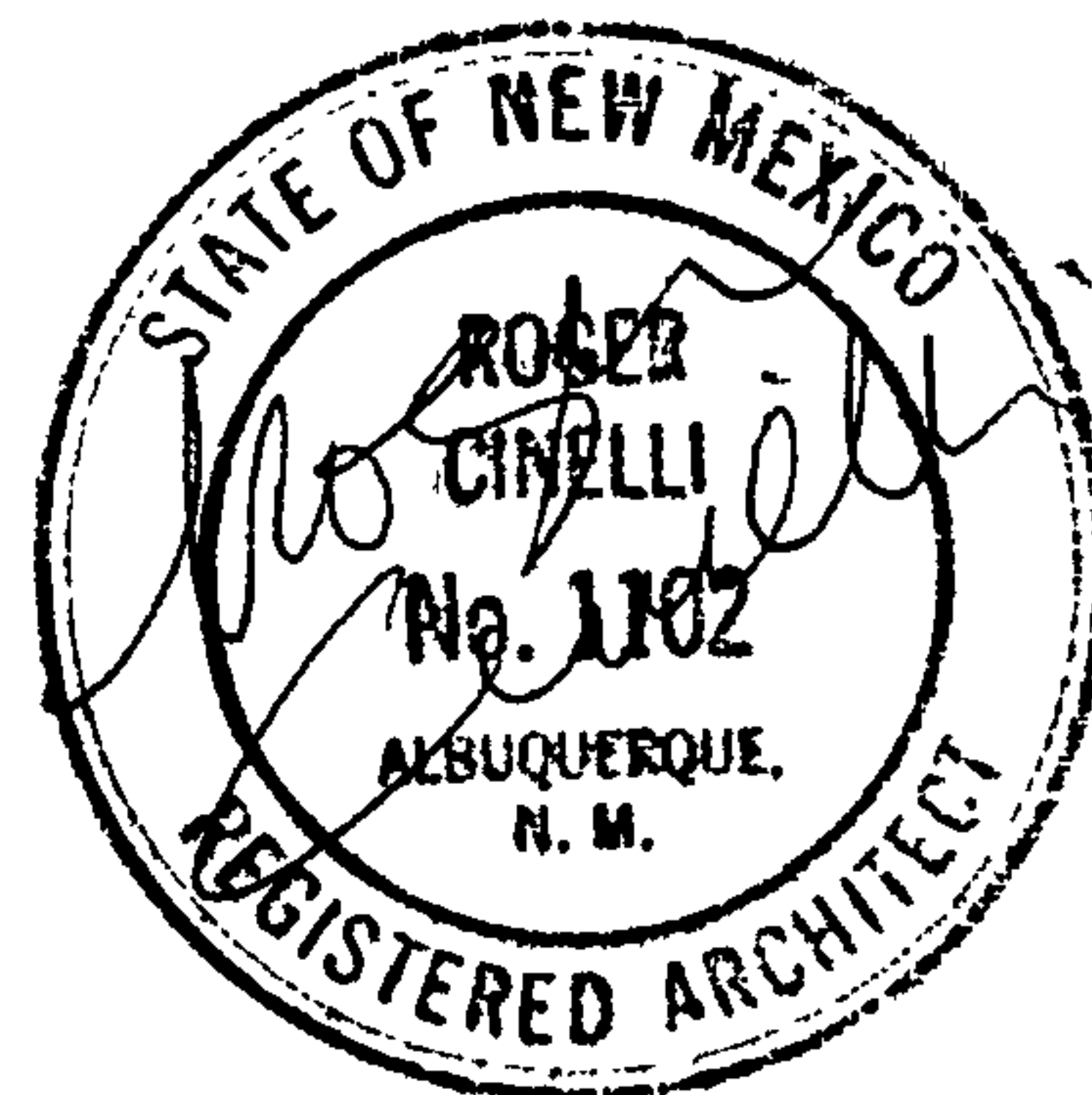
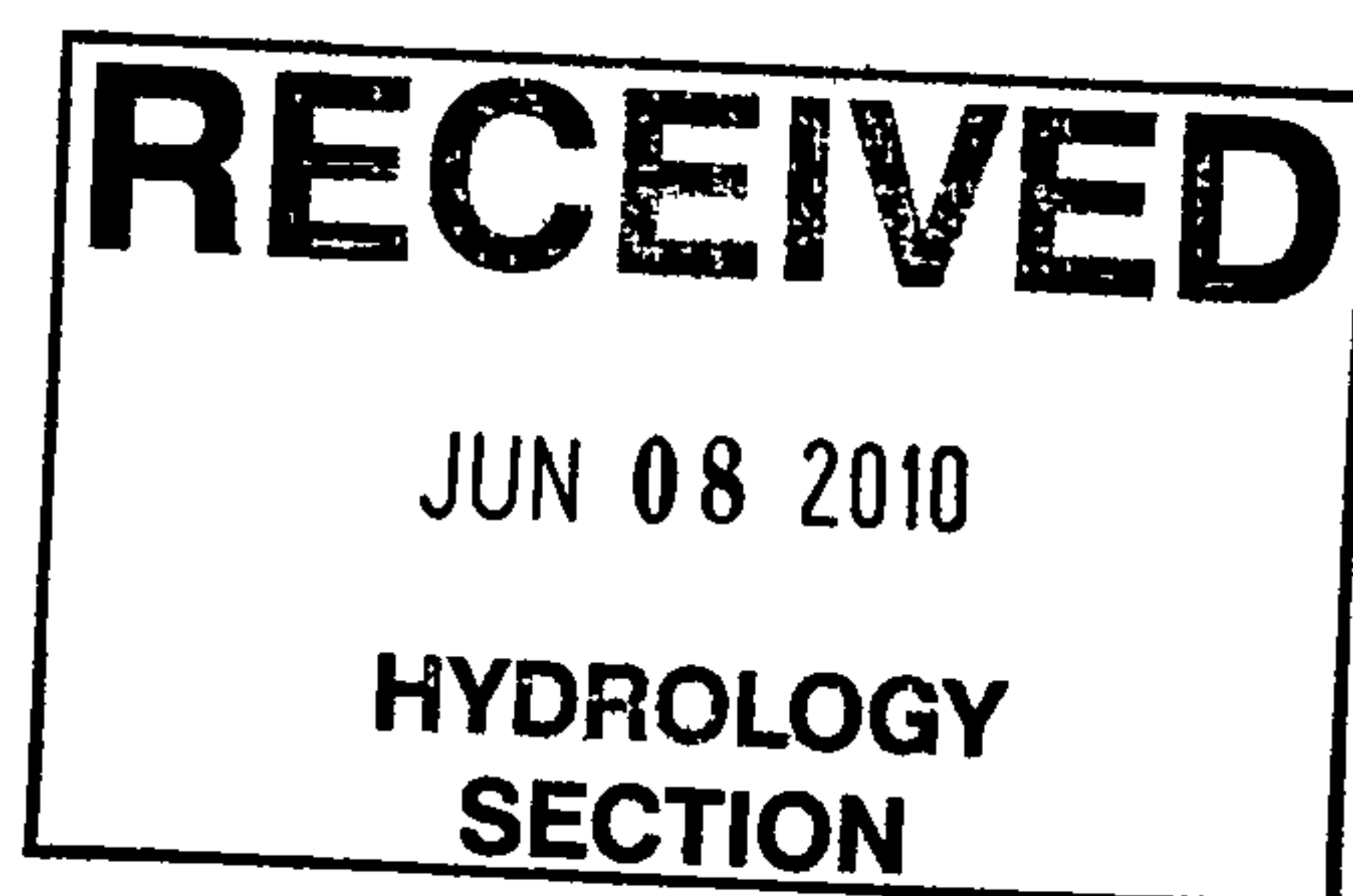
I, ROGER CINELLI, NMRA 1103, OF THE FIRM, CINELLI ARCHITECTS, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE TCL APPROVED PLAN DATED NOVEMBER 17, 2008. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ROGER CINELLI OF THE FIRM CINELLI ARCHITECTS. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JUNE 8, 2010 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR A PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

SINCERELY,

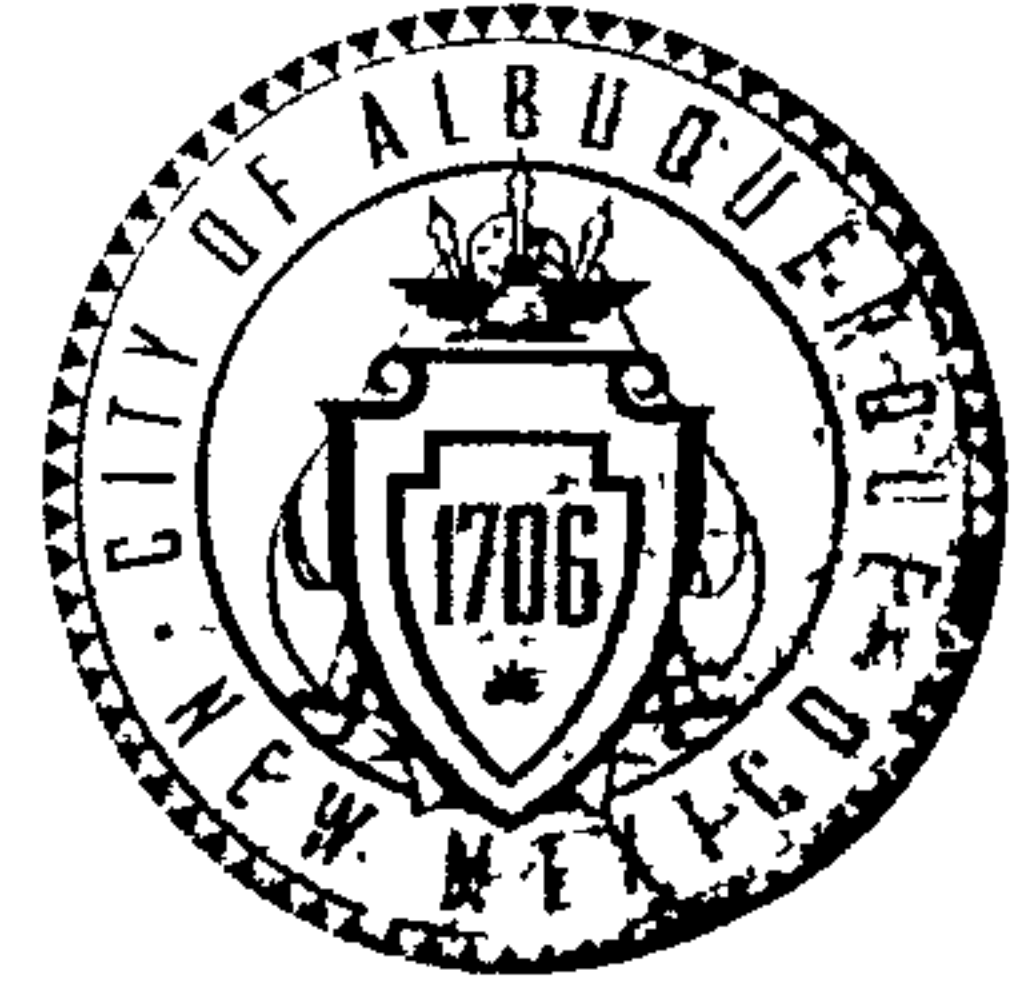

ROGER CINELLI, ARCHITECT

6/8/10
DATE



6-8-10

CITY OF ALBUQUERQUE



November 24, 2008

Roger Cinelli, R.A.
Roger Cinelli and Associates
2418 Manuel Torres Ln. NW
Albuquerque, NM 87107-3060

Re: 16 Unit Apartment Complex for Ahmet Tiryaki, 2801 12th Street NW,
Traffic Circulation Layout
Architect's Stamp dated 11-17-08 (H13-D051)

Dear Mr. Cinelli,

The TCL submittal received 11-17-08 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. **Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.**

PO Box 1293

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Albuquerque

NM 87103

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

www.cabq.gov

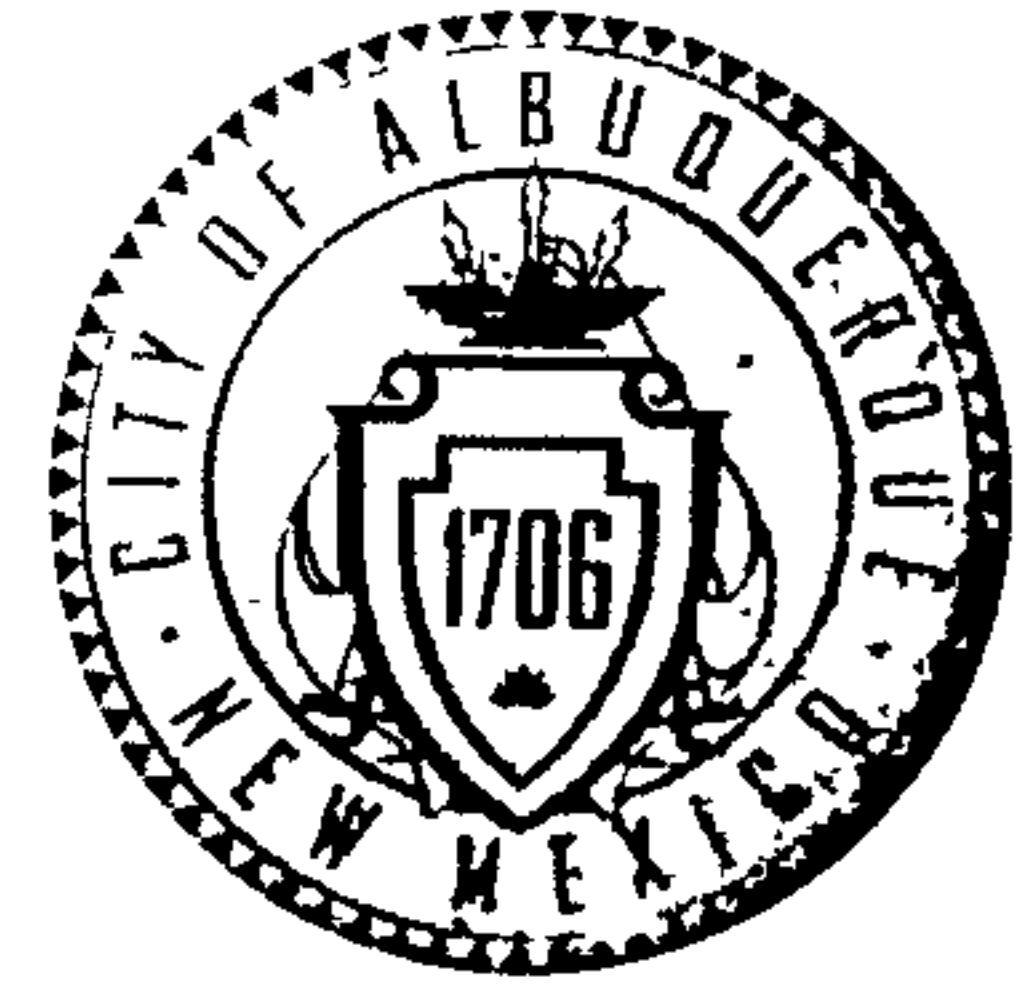
Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Kristal D. Metro, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

C: File

CITY OF ALBUQUERQUE



January 8, 2008

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave., NE
Albuquerque, NM 87113

**Re: 16 Unit Apartment for Ahmet Tiryaki,
Drainage Report & Grading and Drainage Plan
2801 12th NW
Engineer's Stamp dated 12/24/08 (H-13/D051)**

Dear Mr. Biazar,

Based upon the information provided in your submittal received 12-29-08, the above referenced plan is **NOT** approved for Building Permit until the following comments are addressed:

- ✓ • Section A-A of the Grading and Drainage Plan: You show a difference of 30.25 feet from the top of header wall to flow line and a difference of 29.18 from header wall to FF elevation. Please check and verify these elevations points.
- Drainage Report: You are requesting a re-plat approval of the existing lot. The request is denied because this will require a DRB action and not a Drainage submittal approval. Please correct this statement on the report and I refer to DRB for this type of request.

If you have any questions, please contact me at 924-3630.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File

CITY OF ALBUQUERQUE



January 8, 2008

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave., NE
Albuquerque, NM 87113

**Re: 16 Unit Apartment for Ahmet Tiryaki,
Drainage Report & Grading and Drainage Plan
2801 12th NW
Engineer's Stamp dated ¹⁻¹³⁻⁰⁹ ~~12/24/08~~ (H-13/D051)**

Dear Mr. Biazar,

Based upon the information provided in your submittal received 05-06-08, the above referenced plan is approved for Grading and Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. **Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.**

PO Box 1293

Albuquerque

NM 87103

The above referenced plan is approved for an SO-19 permit. A copy of this approval letter must be on hand when applying for the excavation permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required. Be advised that no Certificate of Occupancy, temporary or permanent, will be released prior to inspection and approval of the storm drain connection / sidewalk culvert by the Storm Drain Maintenance department. Contact Duane Schmitz at 235-8016 to schedule an inspection.

If you have any questions, you can contact me at 924-3630.

www.cabq.gov

Sincerely,

Milo E. Salgado-Fernandez, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: Antoinette Baldonado, Construction Services
Duane Schmitz, DMD Street/Storm Maintenance (Pino Yards)
File

DRAINAGE INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: 16 UNIT APARTMENTS FOR AHMET TIRYAKI ZONE ATLAS/DRG. FILE #: H13 / D51
DRB #: EPC #: WORK ORDER #:

LEGAL DESCRIPTION: LOT NUMBERED 5-A-1-A OF THE COLEMAN ADDITION

CITY ADDRESS: 2801 12th N.W.

ENGINEERING FIRM: Advanced Engineering and Consulting, LLC
ADDRESS: 4416 Anaheim Ave., NE
CITY, STATE: Albuquerque, New Mexico

CONTACT: Shahab Biazar
PHONE: (505) 899-5570
ZIP CODE: 87113

OWNER:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

ARCHITECT:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

SURVEYOR:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

CONTRACTOR:
ADDRESS:
CITY, STATE:

CONTACT:
PHONE:
ZIP CODE:

CHECK TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT
☐ DRAINAGE PLAN 1ST SUBMITTAL, REQUIRES TCL OR EQUAL
☐ 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
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☐ FOUNDATION PERMIT APPROVAL
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☒ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☒ SO-19

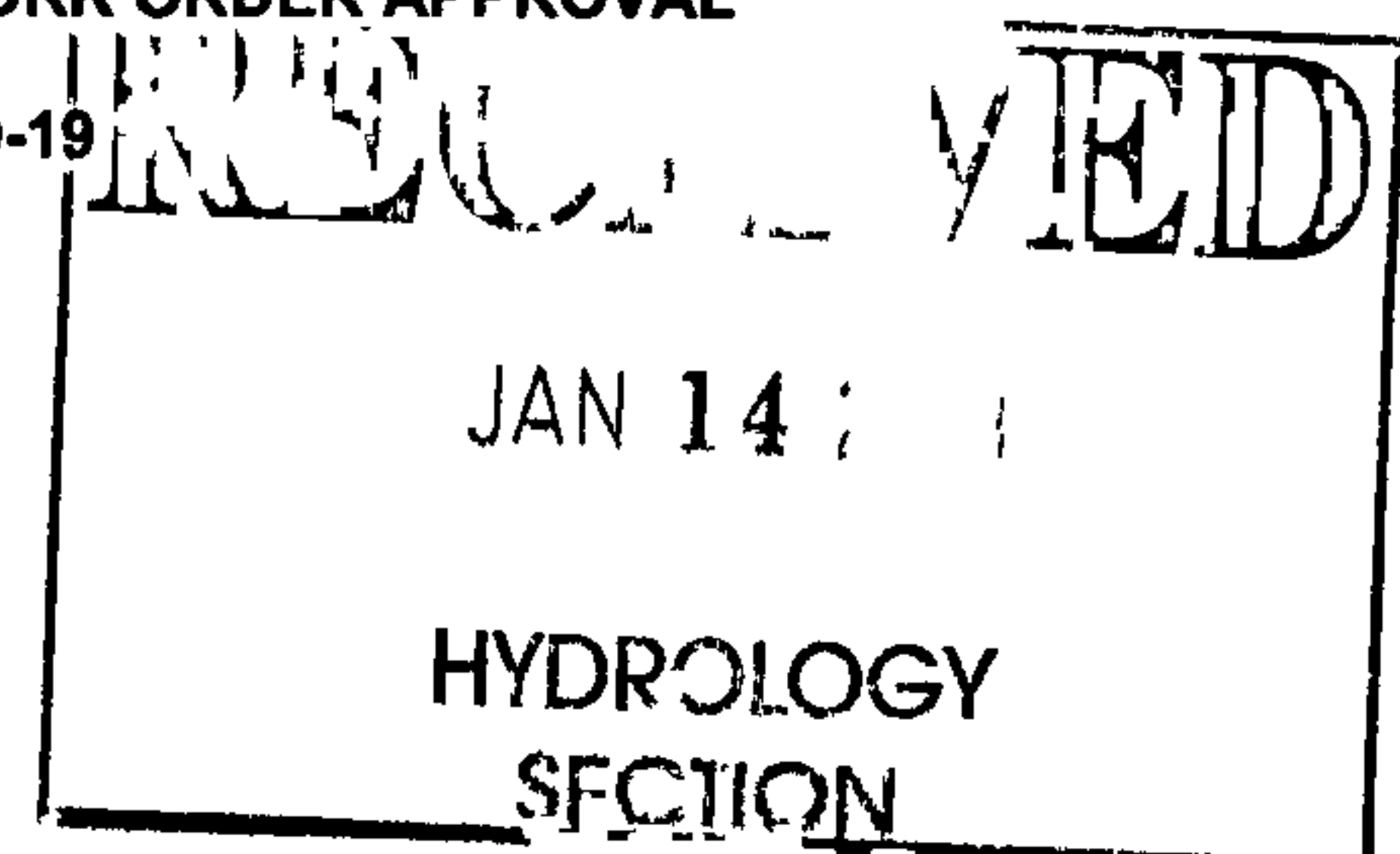
WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 1 / 13 / 2009 BY: Shahab Biazar, P.E.

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

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2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more



DRAINAGE REPORT
FOR

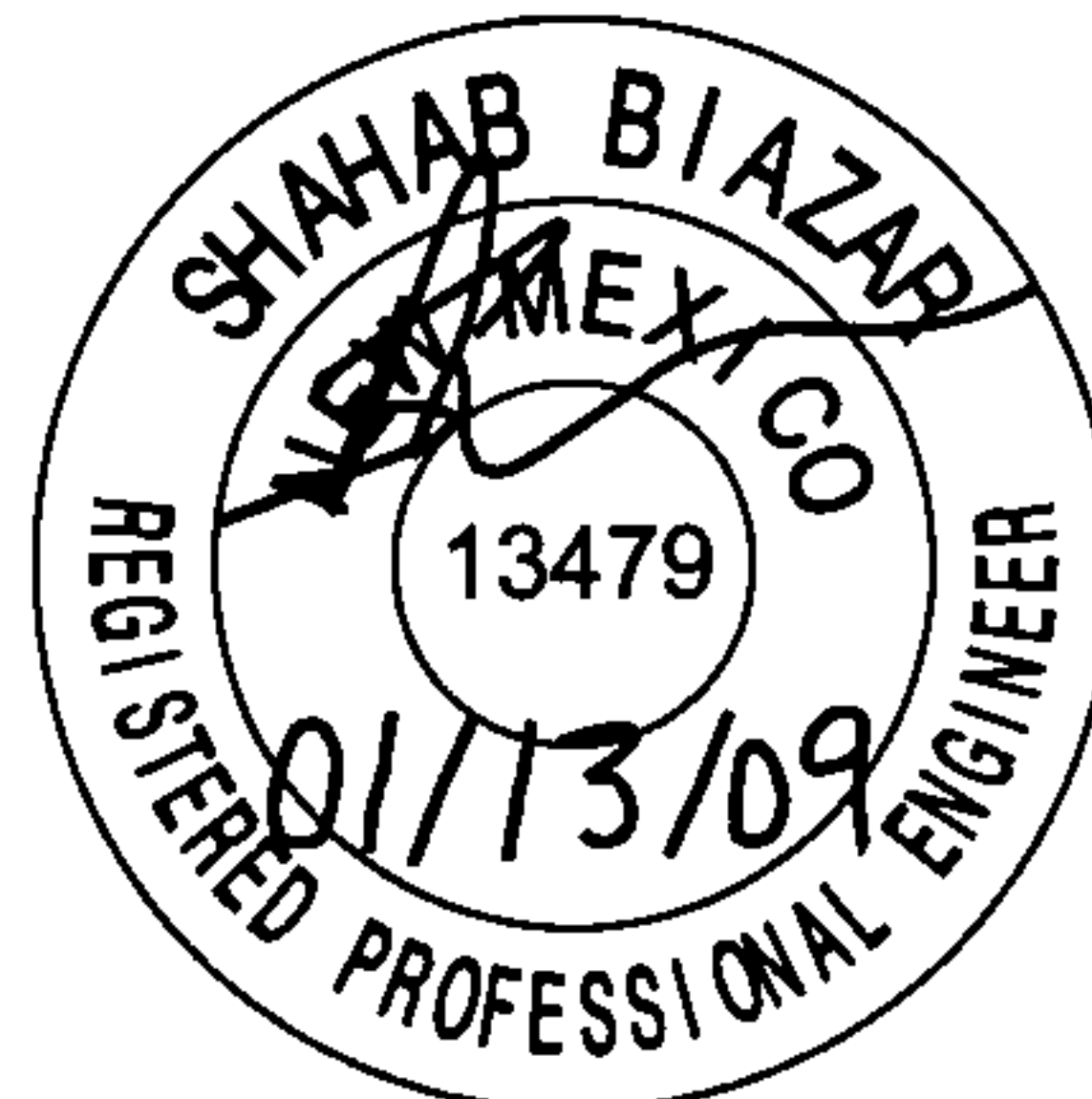
16 UNIT APARTMENTS FOR
AHMET TIRYAKI
(2801 12th N.W.)

Prepared by:

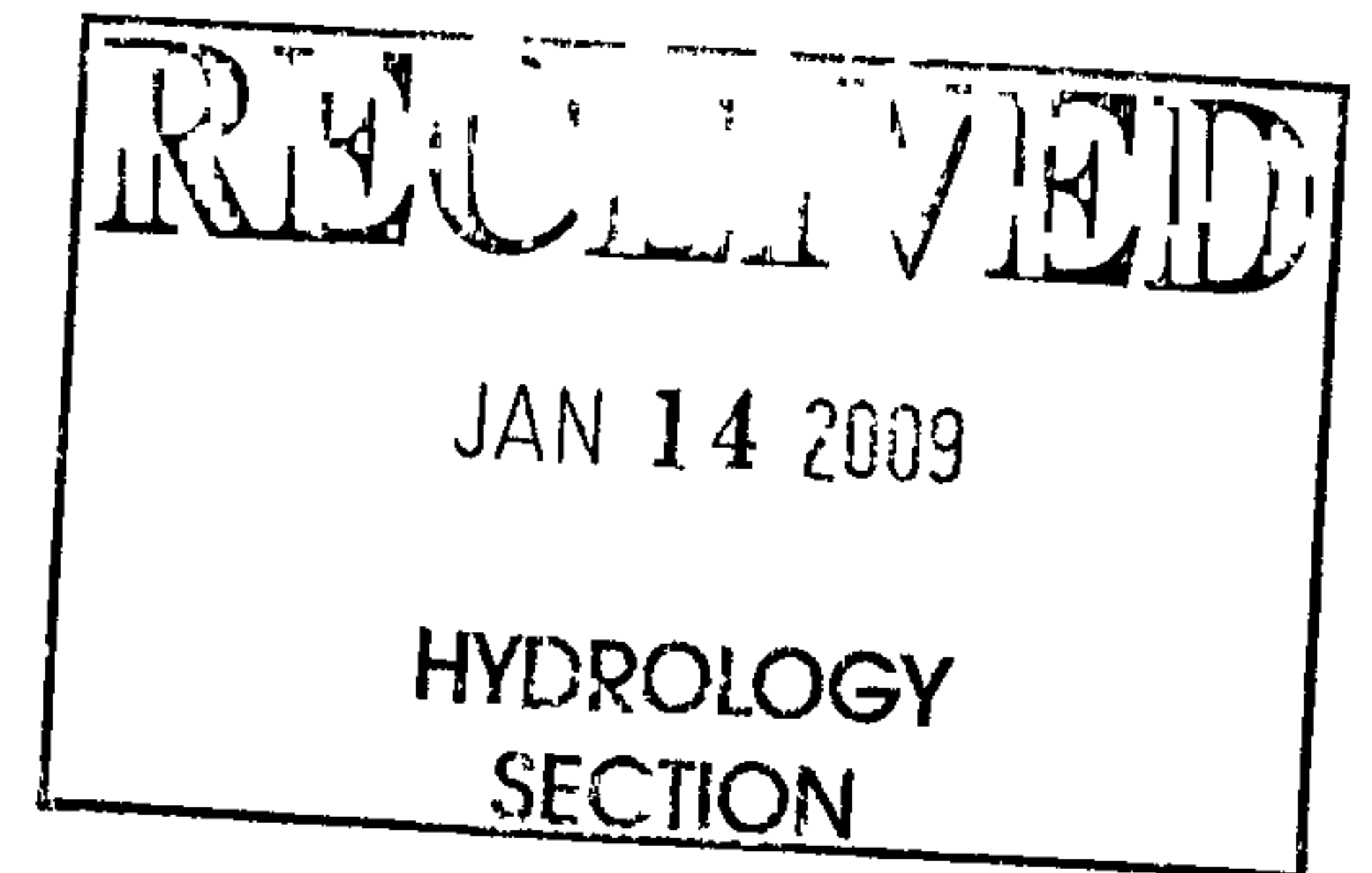


4416 Anaheim Ave., NE
Albuquerque, New Mexico 87113

January 13, 2009

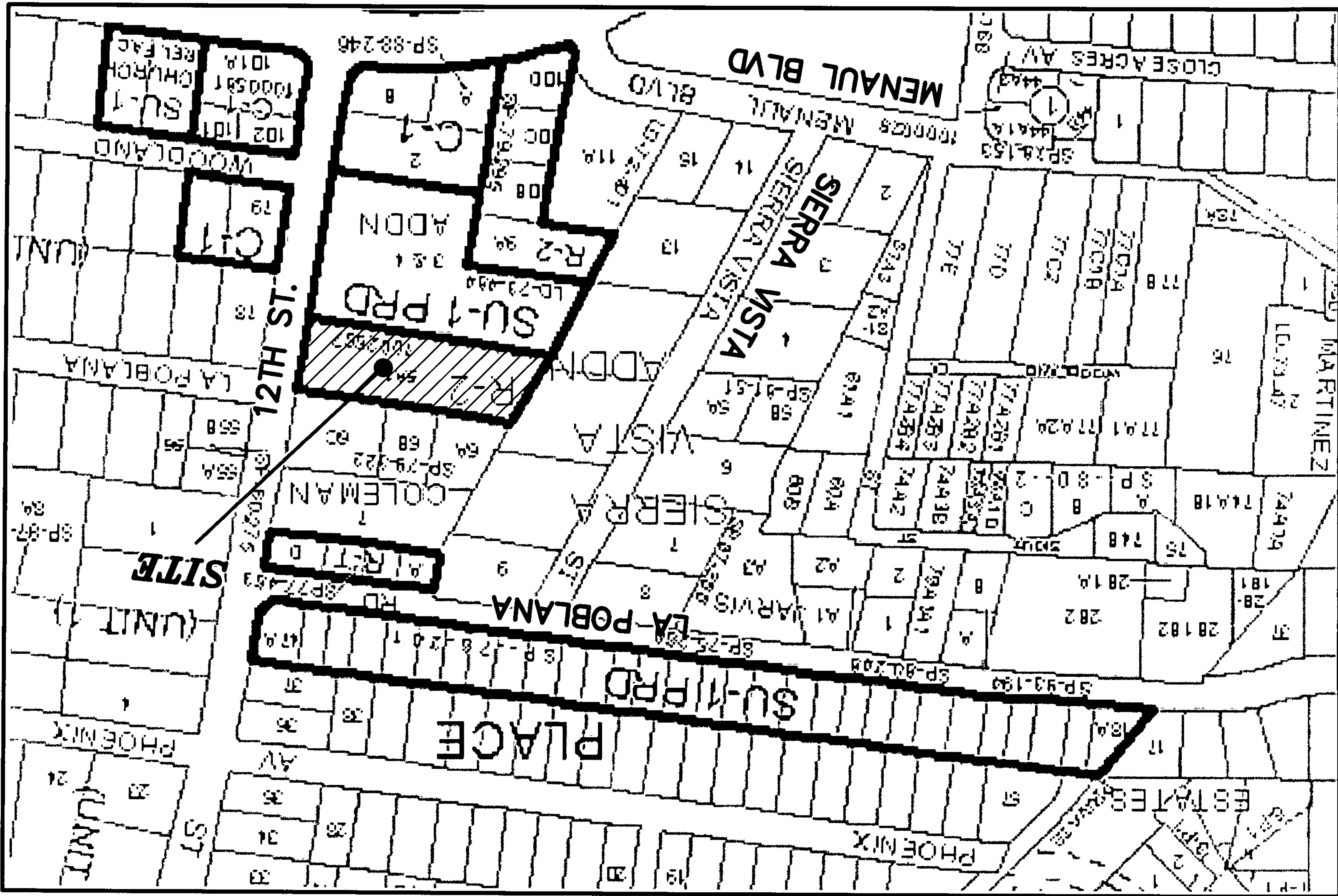


Shahab Biazar
PE NO. 13479



VICINITY MAP:

H-13-Z



Location

Lots 5A and 5B of Coleman Addition are located at east side of 12th Street North of Menaul Boulevard containing ± 0.8544 acres. See attached Zone Atlas page number H-13 for exact location.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed site. We are requesting rough grading approval and building permit approval. This site was previously approved for 11 lots subdivision under the City Drainage Number H-13/D-51 and then re-platted back to a single lot.

Existing Drainage Conditions

The site is fairly flat and water ponds on site where it falls. During a large storm the runoff from the site overflows (at a flow rate of 1.34 cfs) to 12th Street, and then from there the runoff drains to an existing inlets via surface to the south of the project on 12th Street. No offsite runoff enters the site. The site falls within Zone X based on the floodplain map number 35001C0331E.

Proposed Conditions and On-Site Drainage Management Plan

The drainage pattern under the proposed conditions will remain the same as the existing conditions (to 12th Street). The site is raised at one end to create a positive flow to 12th Street, and from 12th Street the runoff will continue south to the existing inlet. The runoff on-site will drain from the west to east along the northerly ($\pm 50\%$ of flow) and southerly ($\pm 50\%$ of flow) property line to two 12" Sidewalk Culverts and then to 12th Street. Under the proposed conditions the site will generate a runoff of 3.52 cfs. Since the site is fairly close to the exiting inlet on 12th Street the increase of $(3.52 \text{ cfs} - 1.34 \text{ cfs})$ 2.18 cfs should not have an impact on the storm inlet on 12th Street. The runoff will be in and out of the inlet before the storm water from the upper part of the street reaches the inlet.

Calculations

City of Albuquerque, Development Process Manual, Section 22.2, Hydrology Section, was used for runoff calculations. See this report for Summary Table for runoff results. See also this report for the AHYMO input and summary output.

RUNOFF CALCULATIONS

(INPUT DATA FOR AHYMO 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 input file and summary output from AHYMO calculations.

RUNOFF CALCULATION RESULTS

BASIN	AREA (SF)	AREA (AC)	AREA (MI ²)
ON-SITE	37218.56	0.8544	0.001335

EXISTING

BASIN	Q-100 CFS	Q-10 CFS
ON-SITE	1.34	0.32

PROPOSED

BASIN	Q-100 CFS	Q-10 CFS
ON-SITE	3.52	2.19

AHYMO INPUT FILE

```
* ZONE 2
*****
*      100-YEAR,  6-HR STORM (UNDER HISTORICAL 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

* ON-SITE
COMPUTE NM HYD      ID=1 HYD NO=100.0 AREA=0.001335 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 HISTORICAL 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

* ON-SITE
COMPUTE NM HYD      ID=1 HYD NO=110.0 AREA=0.001335 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

* ON-STIE
COMPUTE NM HYD      ID=1 HYD NO=101.0 AREA=0.001335 SQ MI
                   PER A=0.00 PER B=15.00 PER C=15.00 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=1.34 IN RAIN SIX=1.57 IN
           RAIN DAY=1.83 IN DT=0.03333 HR

* ON-SITE
COMPUTE NM HYD      ID=1 HYD NO=111.0 AREA=0.001335 SQ MI
                   PER A=0.00 PER B=15.00 PER C=15.00 PER D=70.00
                   TP=0.1333 HR MASS RAINFALL=-1
*****
FINISH
```


SUMMARY OUTPUT FILE

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = 810-3

- VERSION: 1997.02d

RUN DATE (MON/DAY/YR) =12/23/2008
USER NO.= AHYMO-I-9702c01000R31-AH

[illegible]

SIDEWALK CULVERT CALCULATIONS

Sidewalk culvert flow capacity calculations were done using the orifice equation.

12" Sidewalk Culvert Flow Capacity Calculation Using Orifice Equation

Orifice Equation: $Q = CA\sqrt{2gh}$

h (head) = 1.00'

$A = 0.67$ sf

$g = 32.20$

$$\begin{aligned} Q &= 0.60 \times 0.67 \times \sqrt{(2 \times 32.2 \times 1.00)} \\ &= 3.22 \text{ cfs} \end{aligned}$$

3.22 cfs > 1.76 (50% of total on-site flow of 3.52 cfs)

CITY OF ALBUQUERQUE



September 5, 2006

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave., NE
Albuquerque, NM 87113

**Re: Hacienda de Lois Subdivision Grading and Drainage Plan
Engineer's Stamp dated 8-31-06 (H13/D51)**

Dear Mr. Biazar,

Based upon the information provided in your submittal dated 9-1-06, the above referenced plan is approved for Preliminary Plat action by the DRB. Once that board approves the grading plan, please submit a mylar copy for my signature in order to obtain a Rough Grading Permit.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

C: file
Brad Bingham

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



August 18, 2006

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave., NE
Albuquerque, NM 87113

Re: Hacienda de Lois Subdivision Grading and Drainage Plan
Engineer's Stamp dated 8-9-06 (H13/D51)

Dear Mr. Biazar,

Based upon the information provided in your submittal dated 8-10-06, the above referenced plan cannot be approved for Preliminary Plat action by the DRB until the following comments are addressed:

- Existing contours indicate offsite flows enter the site. Quantify the offsite flows and change the site design as necessary to accommodate them.
- A few of the lots in the eastern half of this subdivision have elevations in the backyard higher than the retaining wall. Backyards must be at or below the top of the retaining wall.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

but

C: file
Brad Bingham