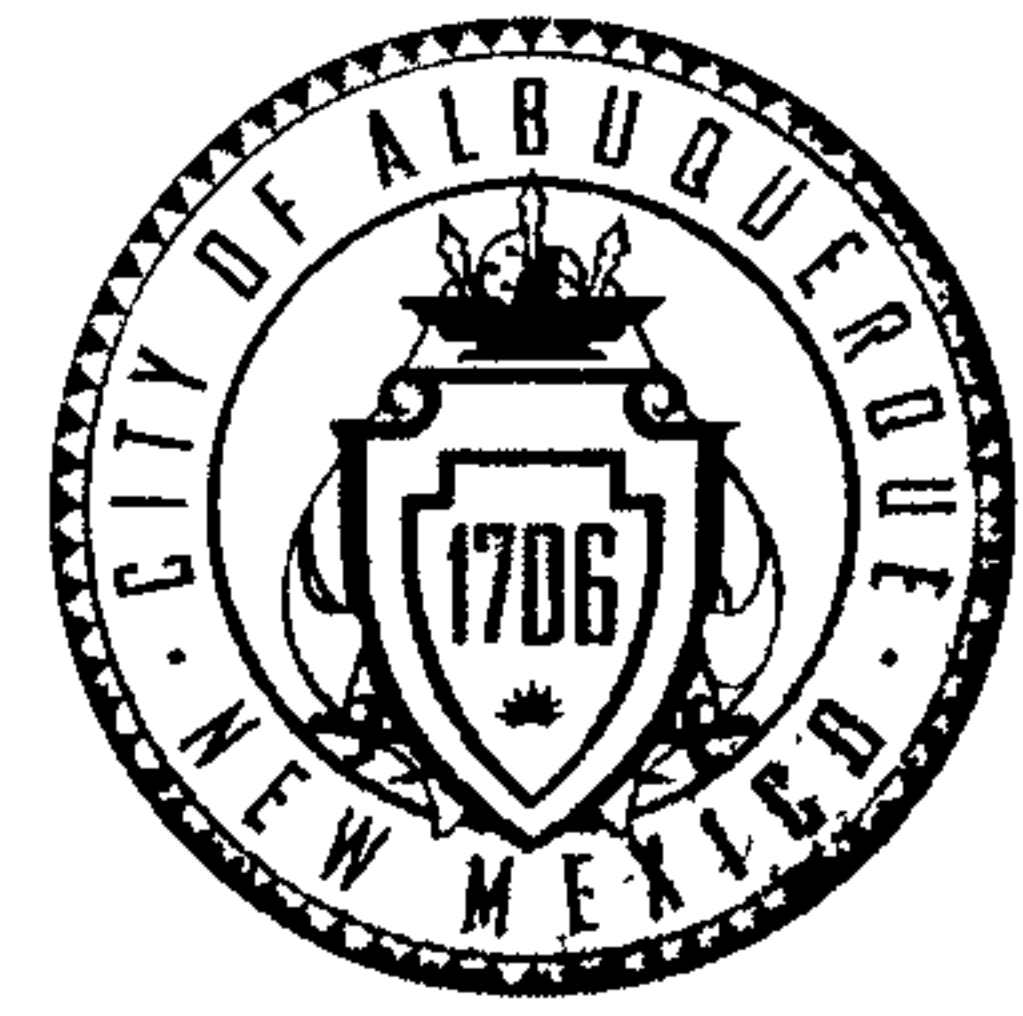


CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

January 5, 2017

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: **Abrazo Homes**
Lot 4 Block 10 Unit 22 Volcano Cliffs SAD 228
6420 Petirrojo NW
Grading and Drainage Plan
Engineers Stamp Date 11/3/16 (D10D003F4)
Pad Certification Dated 1/10/16

Dear Mr. Soule,

Based upon the information provided in your submittal received 1/4/17, this plan is approved for Building Permit.

PO Box 1293

Please inform the builder to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. Also, notify the owner/contractor that a separate permit for the fence is required.

Albuquerque

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

New Mexico 87103

If you have any questions, please contact me at 924-3999 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

Shahab Biazar, P.E.
City Engineer, Albuquerque
Planning Department

RR/SB
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 6420 PETIRRIJO Building Permit #: City Drainage #: D10D003F4

DRB#: EPC#: Work Order#:

Legal Description: lot 4 block 10 volcano cliffs UNIT 22

City Address: 6420 PETIRROJO NW

Engineering Firm: RIO GRANDE ENGINEERING

Contact: DAVID SOULE

Address: PO BOX 93924, ALBUQUERQUE, NM 87199

Phone#: 505.321.9099

Fax#: 505.872.0999

E-mail: DAVID@RIOGRANDEENGINEERING.COM

Owner: ABRAZO HOMES

Contact:

Address: 6420 PETIRROJO NW 87120

Phone#:

Fax#:

E-mail:

Architect: none

Contact:

Address:

Phone#:

Fax#:

E-mail:

Other Contact:

Contact:

Address:

Phone#:

Fax#:

E-mail:

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY

TYPE OF SUBMITTAL:

- ☒ ENGINEER/ ARCHITECT CERTIFICATION (PAD ONLY)

☐ CONCEPTUAL G & D PLAN

☐ GRADING PLAN

☐ DRAINAGE MASTER PLAN

☐ DRAINAGE REPORT

☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)

☐ TRAFFIC IMPACT STUDY (TIS)

☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

☐ OTHER (SPECIFY) _____

☐ PRELIMINARY PLAT APPROVAL

☐ SITE PLAN FOR SUB'D APPROVAL

☐ SITE PLAN FOR BLDG. PERMIT APPROVAL

☐ FINAL PLAT APPROVAL

☐ SIA/ RELEASE OF FINANCIAL GUARANTEE

☐ FOUNDATION PERMIT APPROVAL

☐ GRADING PERMIT APPROVAL

☐ SO-19 APPROVAL

☐ PAVING PERMIT APPROVAL

☐ GRADING/ PAD CERTIFICATION

☐ WORK ORDER APPROVAL

☐ CLOMR/LOMR

☐ PRE-DESIGN MEETING

☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 1/3/17

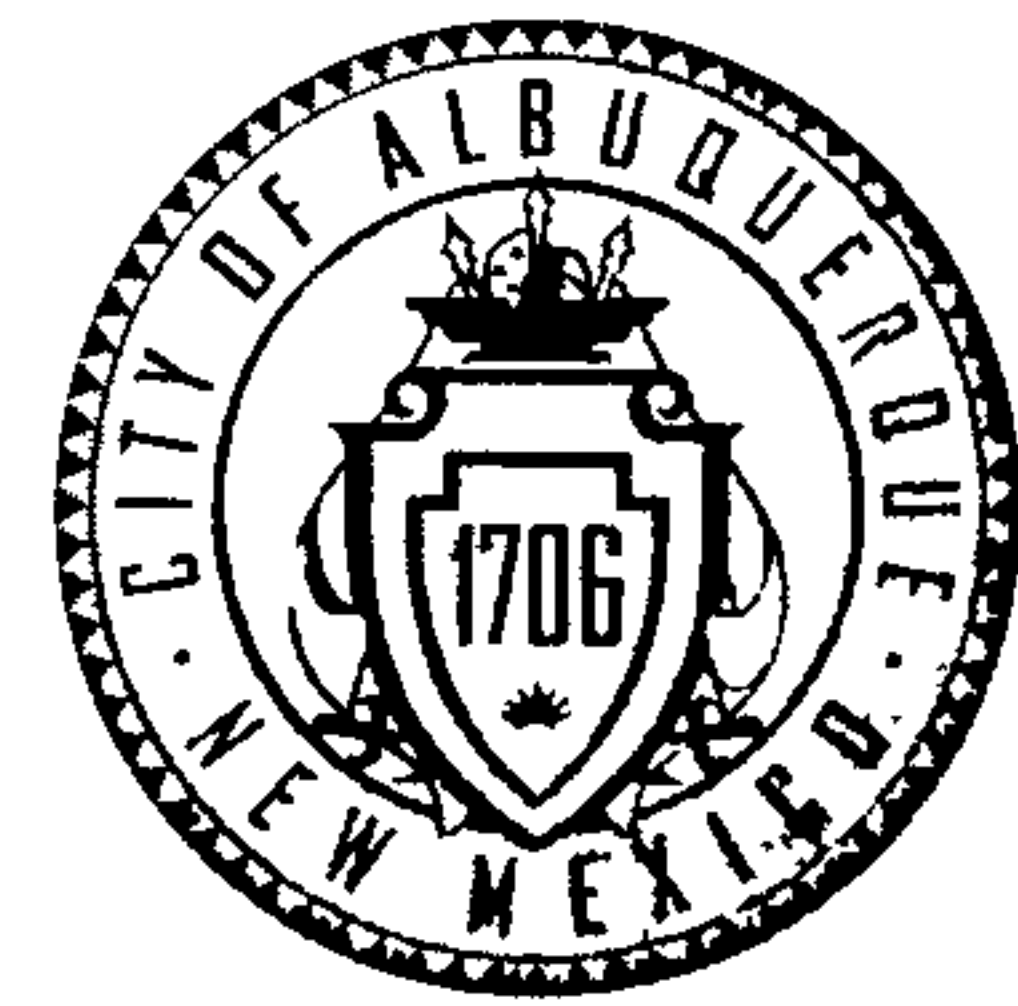
By: _____

COA STAFF

ELECTRONIC SUBMITTAL RECEIVED _____

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

November 9, 2016

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: Abrazo Homes
Lot 4 Block 10 Unit 22 Volcano Cliffs SAD 228
6420 Petrojo NW
Grading and Drainage Plan
Engineers Stamp Date 11/3/16 (D10D003F4)

Dear Mr. Soule,

Based upon the information provided in your submittal received 11/4/16, this plan is approved for Grading Permit and Building Permit.

PO Box 1293

Please inform the builder to attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. Also, notify the owner/contractor that a separate permit for the fence is required.

Albuquerque

Prior to construction of the home, a pad certification will be required. A hold on the property will be placed until this certification has been approved.

New Mexico 87103

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

www.cabq.gov

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Abiel Carrillo, P.E.
Principal Engineer, Hydrology
Planning Department

RR/AC
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 6420 PETIRROJO Building Permit #: _____ City Drainage #: D10D003F4
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: lot 4 block 10 volcano cliffs UNIT 22
City Address: 6420 PETIRROJO NW

Engineering Firm: RIO GRANDE ENGINEERING Contact: DAVID SOULE
Address: PO BOX 93924, ALBUQUERQUE, NM 87199
Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COM

Owner: ABRAZO HOMES Contact: _____
Address: 6420 PETIRROJO NW 87120
Phone#: _____ Fax#: _____ E-mail: _____

Architect: none Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

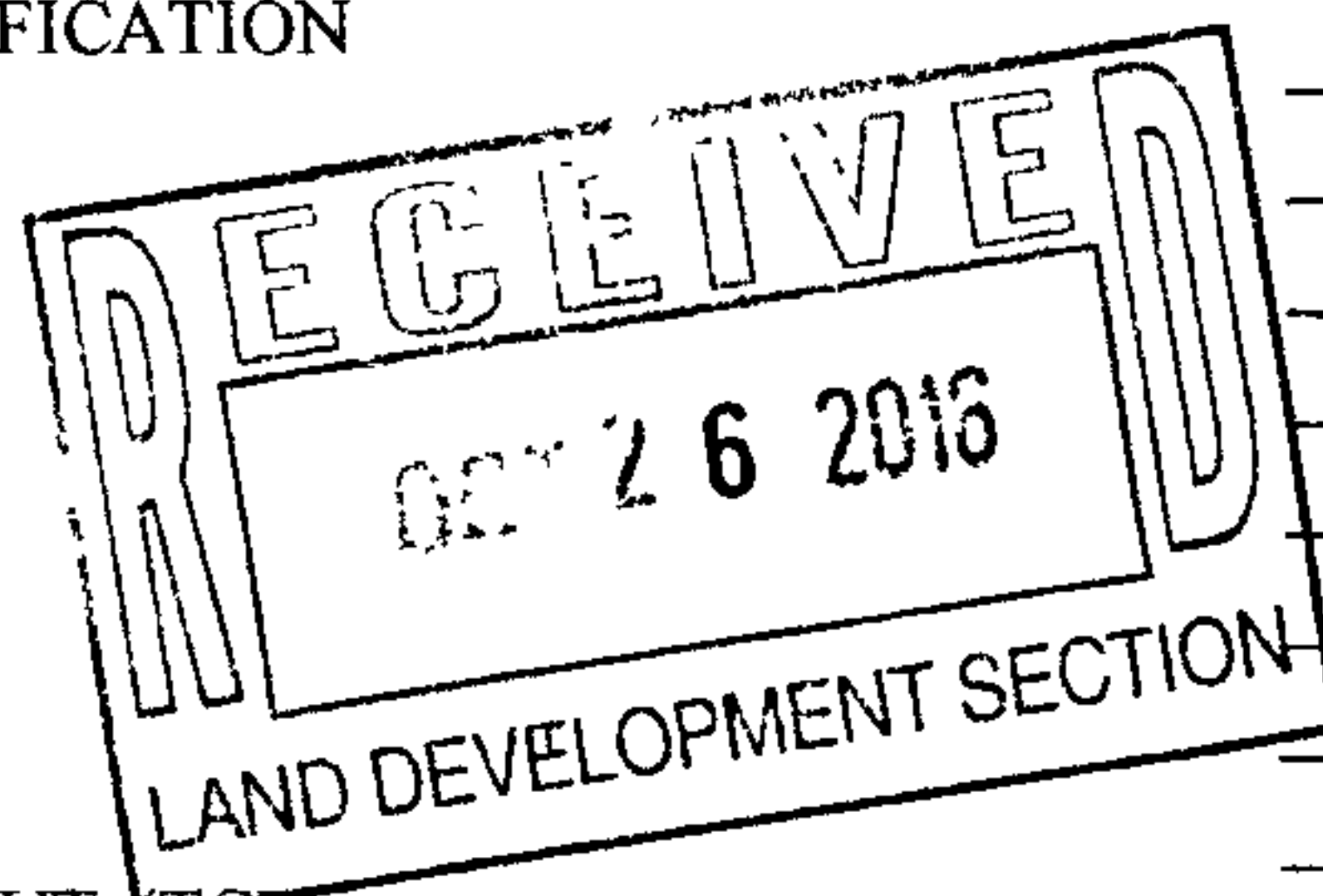
- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____



IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 10/26/16 By: _____

COA STAFF ELECTRONIC SUBMITTAL RECEIVED _____

Weighted E Method

6420 PETIRROJO

											100-Year, 6-hr.		
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted (ac-ft)	Volume (ac-ft)	Flow cfs
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
NATIVE	15409.00	0.354	80%	0.283	10%	0.035	10%	0.0354	0%	0.000	0.518	0.015	0.54
ALLOWED	15409.00	0.354	0%	0	10%	0.035	40%	0.1415	50%	0.177	1.448	0.043	1.25
PROPOSED	15409.00	0.354	0%	0	28%	0.099	35%	0.1238	37%	0.131	1.263	0.037	1.13
UPLAND	5920.00	0.136	0%	0	10%	0.014	40%	0.0544	50%	0.068	1.448	0.016	0.48
total													

Equations:

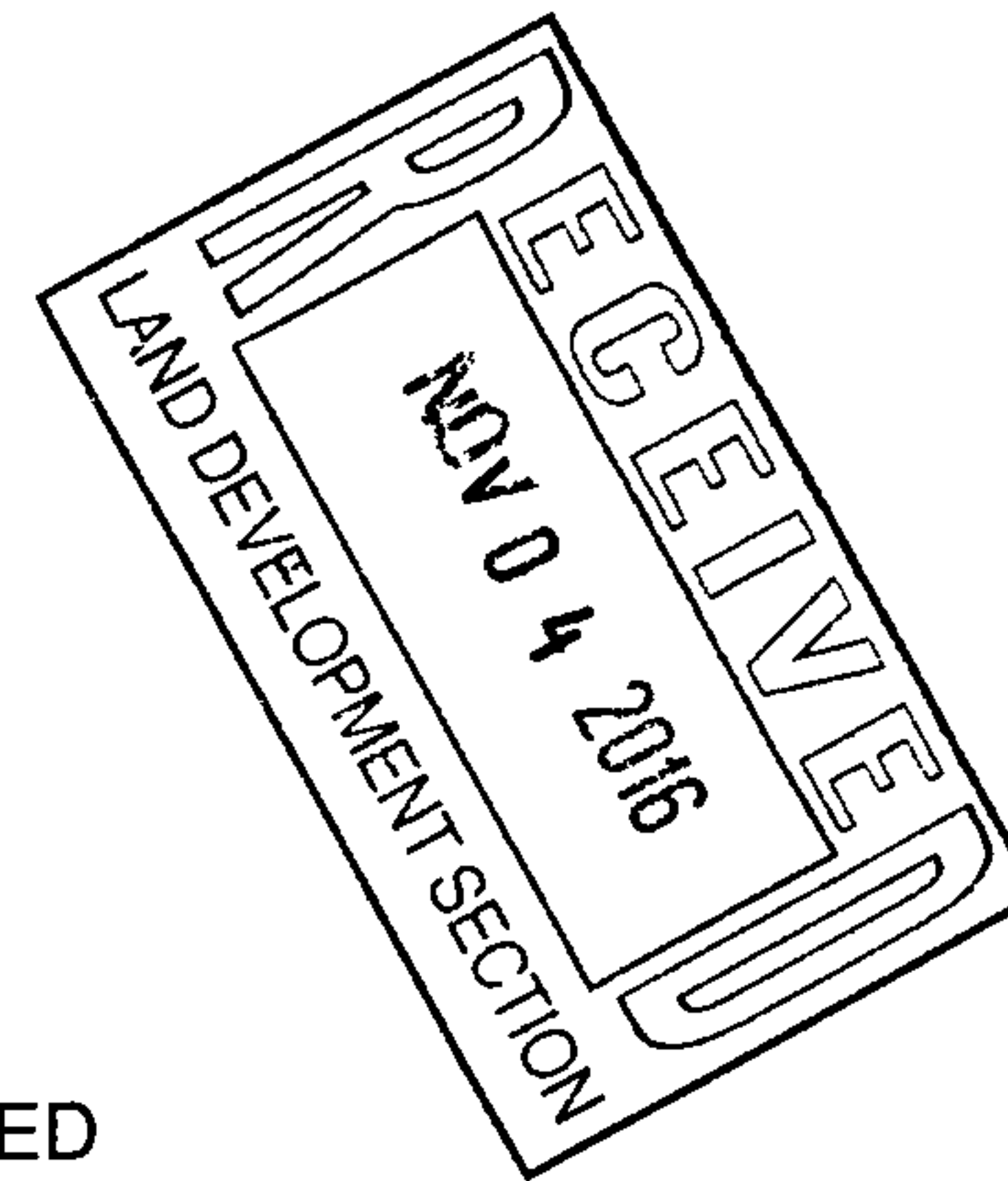
Weighted E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d / (\text{Total Area})$

Volume = Weighted D * Total Area

Flow = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

Where for 100-year, 6-hour storm- zone 1

Ea= 0.44	Qa= 1.29
Eb= 0.67	Qb= 2.03
Ec= 0.99	Qc= 2.87
Ed= 1.97	Qd= 4.37



ONSITE Conditions

FIRST FLUSH WATER QUALITY VOL
REQUIRED
(CF)

PROVIDED
(CF)

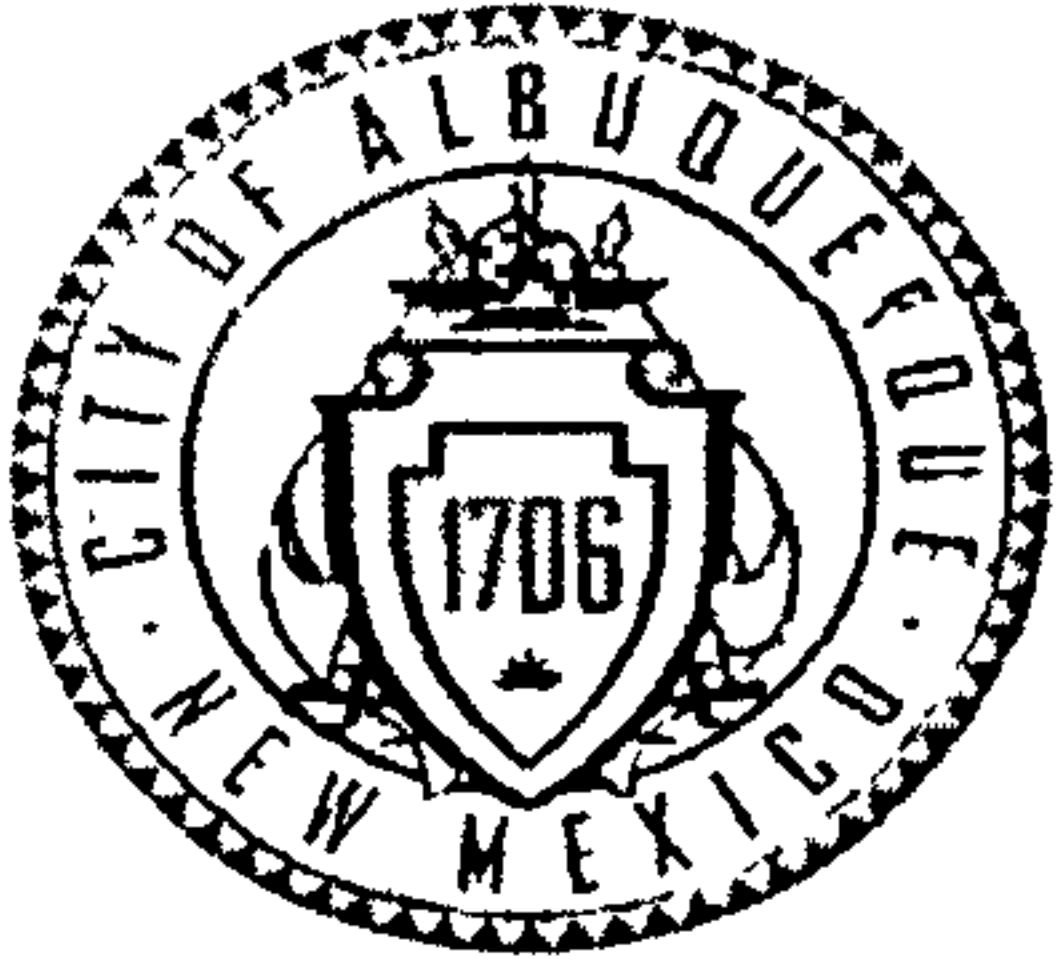
WATER QUALITY 162

420

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulation. The upland flow is such that the pad was raised and additional turned blocks provided to allow flow to pass thru site. This plan is in conformance to the master drainage plan





City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 6420 PETIRRIJO Building Permit #: _____ City Drainage #: D10D003 F4
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: lot 4 block 10 volcano cliffs UNIT 22
City Address: 6420 PETIRROJO NW

Engineering Firm: RIO GRANDE ENGINEERING Contact: DAVID SOULE
Address: PO BOX 93924, ALBUQUERQUE, NM 87199
Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: DAVID@RIOGRANDEENGINEERING.COM

Owner: ABRAZO HOMES Contact: _____
Address: 6420 PETIRROJO NW 87120
Phone#: _____ Fax#: _____ E-mail: _____

Architect: none Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:
☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:
☐ ENGINEER/ ARCHITECT CERTIFICATION
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☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
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☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
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☐ CERTIFICATE OF OCCUPANCY

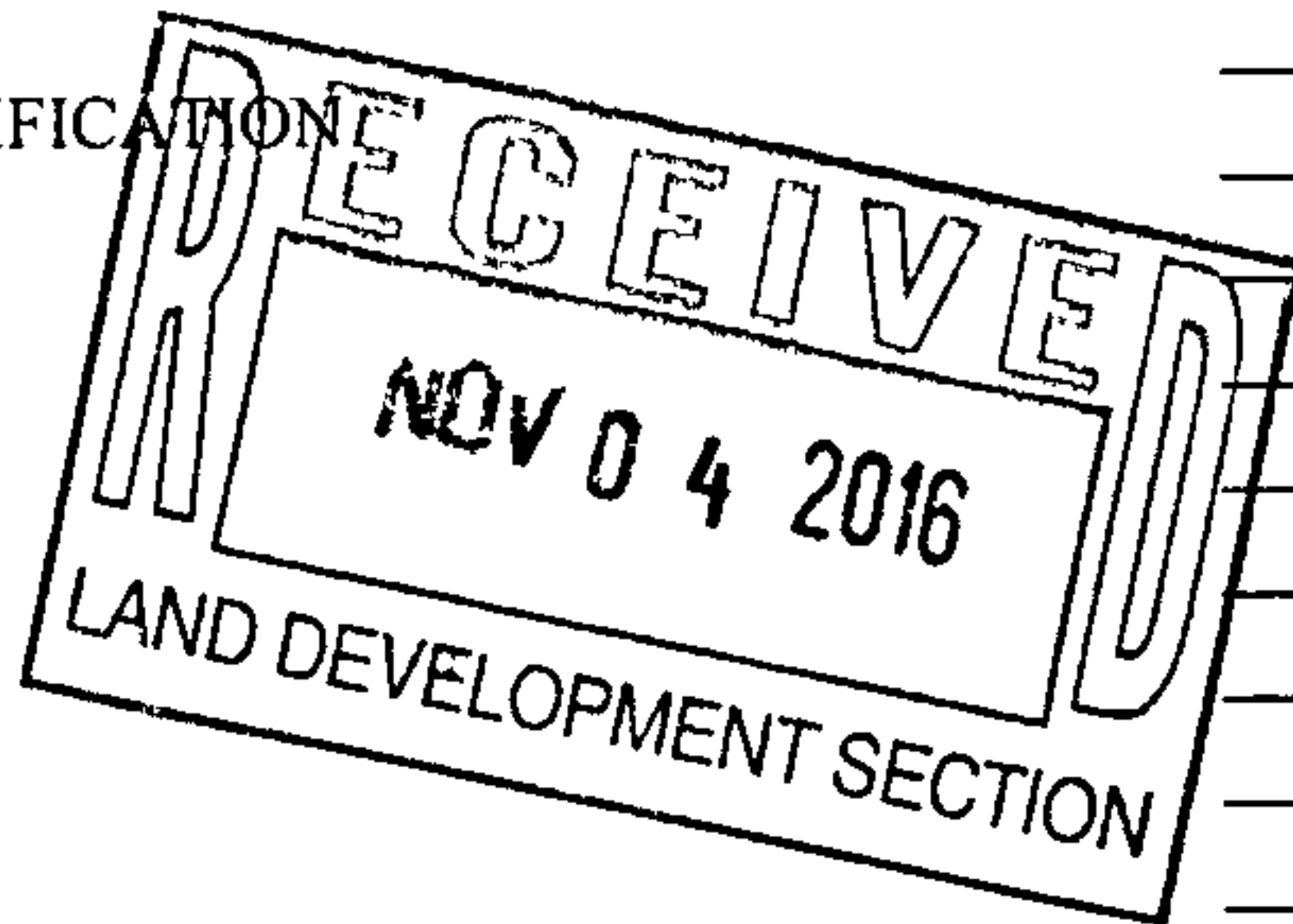
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
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☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR

☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 11/3/16 By: _____

COA STAFF ELECTRONIC SUBMITTAL RECEIVED: _____



Rael, Rudy E.

From: Rael, Rudy E.
Sent: Tuesday, November 01, 2016 9:11 AM
To: 'David Soule (david@riograndeengineering.com)'
Cc: Carrillo, Abiel X.
Subject: 6420 Petirrojo NW

Mr. Soule,

This email is being sent in lieu of an attached comment letter in order to expedite our response to previous comments.

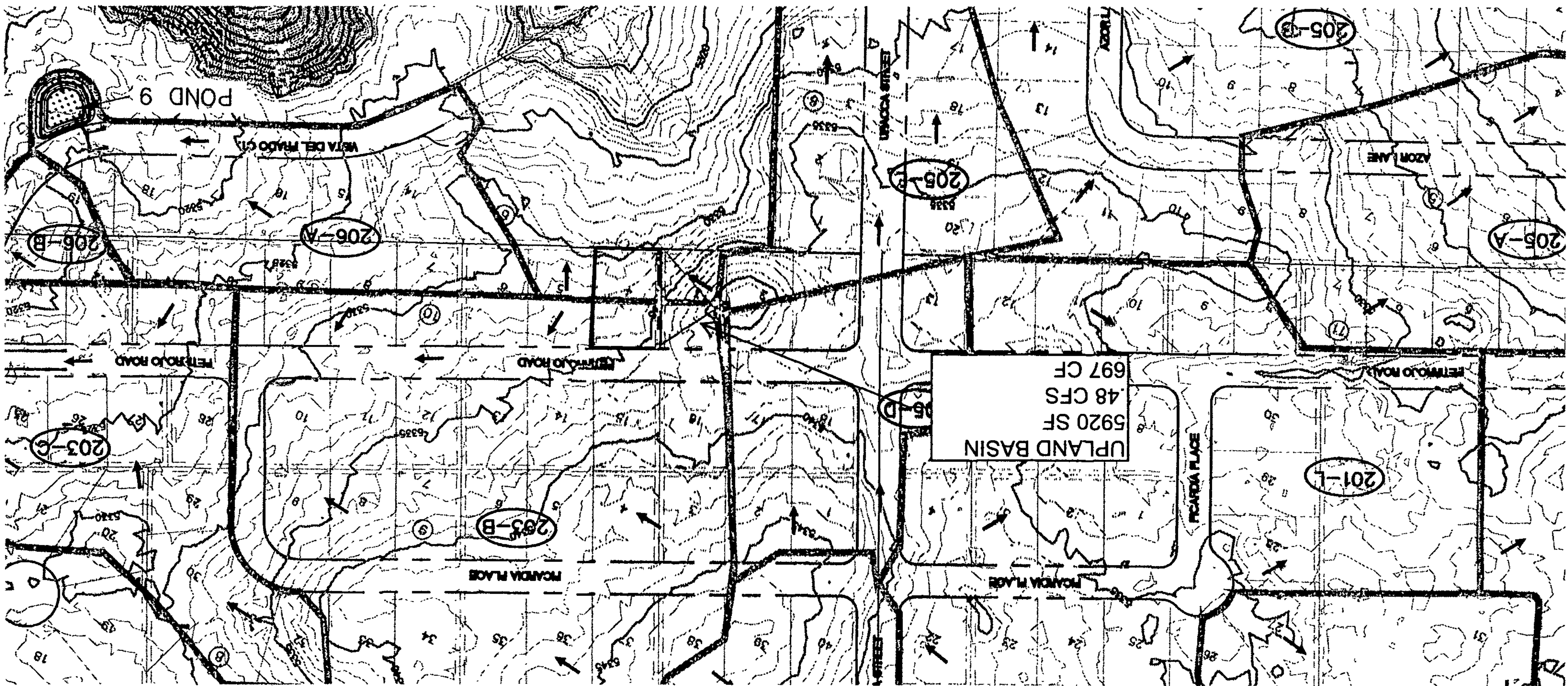
Response to comments should continue to be included in the resubmittal. A reply to these comments via email will not be considered a resubmittal.

Based upon the information provided in your submittal received 10/26/16, the above referenced Grading and Drainage plan dated 10/26/16 cannot be approved for Grading Permit or Building Permit until the following comments are addressed:

- Enlarge the drainage calcs or provide on a separate sheet with the proper font size. Once submitted the calculations will be checked.
- Remove the statement, turn block every 20'.... This lot drains half toward the front and half toward the rear, going through a water Quality pond first.
- Provide a note stating the requirement that a separate wall permit must be provided when the fence is being built, at time of Building permit or later. This plan needs to accompany the wall permit set, otherwise will not be approved.
- Provide a statement for the requirement of a pad certification before the concrete slab is poured or before rough in occurs.

If you should have any questions feel free to contact me or Abiel Carrillo at 924-3986.

Rudy E. Rael, CE, CFM
Engineer Associate, Hydrology
Planning Department
600 2nd St. NW Suite 201
Albuquerque NM 87102
(505) 924-3977



RECEIVED
OCT 26 2016
LAND DEVELOPMENT SECTION