

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Interim Director



Mayor Timothy M. Keller

September 13, 2021

David Soule, PE  
Rio Grande Engineering  
1606 Central SE Suite 201  
Albuquerque, NM 87106

**Re: Lot 2 Block 8 SAD 227  
Volcano Cliffs Subdivision Unit 28  
6219 Keyenta Pl. NW  
Grading and Drainage Plan  
Engineers Stamp Date 12/28/2020 (E10D093)  
Pad Certification Date 3/29/2021  
CO Certification Dated: 9/10/2021**

PO Box 1293

Mr. Soule

Albuquerque

Based on the Certification received on 9/10/2021, the site is acceptable for release of Certificate of Occupancy by Hydrology.

NM 87103

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

www.cabq.gov

Sincerely,

Ernest Armijo, P.E.  
Principal Engineer, Planning Dept.  
Development Review Services



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6219 KEYENTA Building Permit #: \_\_\_\_\_ Hydrology File #: \_\_\_\_\_

DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_

Legal Description: lot 2 BLOCK 8 VOLCANO CLIFFS UNIT 5

City Address: 6219 KEYENTA

Applicant: \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

Other Contact: RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: david@riograndeengineering.com

TYPE OF DEVELOPMENT:  PLAT  RESIDENCE  DRB SITE  ADMIN SITE

Check all that Apply:

### DEPARTMENT:

HYDROLOGY/ DRAINAGE  
 TRAFFIC/ TRANSPORTATION

### 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

### TYPE OF SUBMITTAL:

ENGINEER/ARCHITECT CERTIFICATION  
 PAD CERTIFICATION  
 CONCEPTUAL G & D PLAN  
 GRADING PLAN  
 DRAINAGE REPORT  
 DRAINAGE MASTER PLAN  
 FLOODPLAIN DEVELOPMENT PERMIT APPLIC  
 ELEVATION CERTIFICATE  
 CLOMR/LOMR  
 TRAFFIC CIRCULATION LAYOUT (TCL)  
 TRAFFIC IMPACT STUDY (TIS)  
 STREET LIGHT LAYOUT  
 OTHER (SPECIFY) \_\_\_\_\_  
 PRE-DESIGN MEETING?

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  
 FLOODPLAIN DEVELOPMENT PERMIT  
 OTHER (SPECIFY) \_\_\_\_\_

IS THIS A RESUBMITTAL?:  Yes  No

DATE SUBMITTED: \_\_\_\_\_ By: \_\_\_\_\_

COA STAFF: \_\_\_\_\_

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A				Treatment B				Treatment C				Treatment D				100-Year, 6-hr.		24 hour
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	Volume (ac-ft)	Flow (cfs)	Volume (ac-ft)		
ALLOWED	21882.00	0.502	0%	0	24%	0.121	40%	0.2009	36%	0.181	1.266	0.053	1.61	0.060							
PROPOSED	21882.00	0.502	0%	0	33%	0.166	40%	0.2009	27%	0.136	1.149	0.048	1.51	0.053							
COMPARISON																					

Equations:  
 Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)  
 Volume = Weighted D \* Total Area  
 Flow = Qa \* Aa + Qb \* Ab + Qc \* Ac + Qd \* Ad

Where for 100-year, 6-hour storm- zone 1  
 Ea= 0.44  
 Eb= 0.67  
 Ec= 0.99  
 Ed= 1.97  
 Qa= 1.29  
 Qb= 2.03  
 Qc= 2.87  
 Qd= 4.37

ONSITE Conditions	FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	147
FLOOD CONTROL	0	147

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the east per the master drainage plan. The site does not exceed the SAD 227 developed conditions assumptions, therefore ponding is not required. Due to high restrictions we have incorporated ponding to minimize the pad height as much as possible. We are ponding the water harvest volume generated by the site. Upland flow does not impact this lot due to the construction of 81st. This plan is in conformance to the master drainage plan.

I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 12/28/20



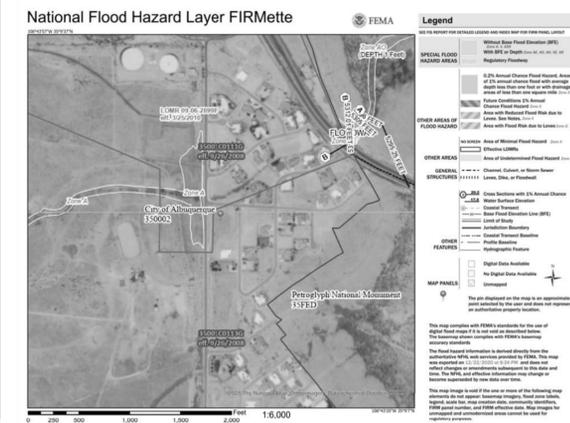
3/29/21

EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



FIRM MAP:

LEGAL DESCRIPTION:

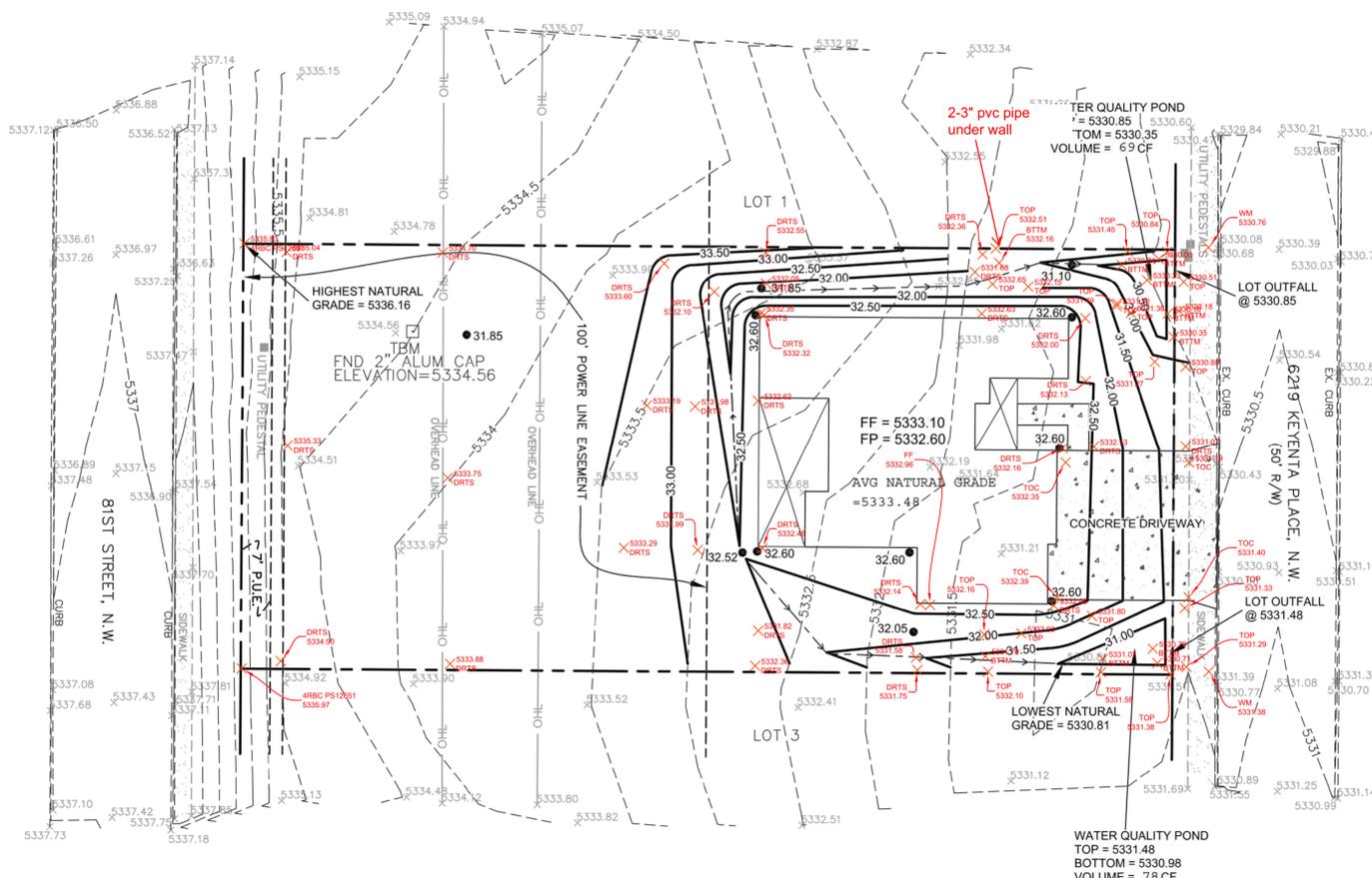
LOT 2 BLOCK 8 UNIT 5 VOLCANO CLIFFS CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
+ XXXXX	EXISTING SPOT ELEVATION
● XXXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----<-----	PROPOSED EARTHEN SWALE (LINED WITH 1/2" GRAVEL)
-----	PROPOSED CONCRETE



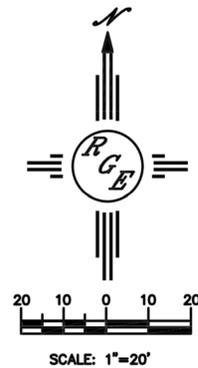
I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 12/28/20. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by DAVID ACOSTA NMPLS 21082. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

SURVEYOR'S CERTIFICATE:  
 I, DAVID P. ACOSTA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21082, DO HEREBY CERTIFY THAT THIS AS-BUILT SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.  
 DAVID P. ACOSTA, NMPLS 21082  
 DATE 09-09-21



9/10/21

**CAUTION:**  
 EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



ENGINEER'S SEAL	<b>LOT 2 BLK 8 UN 5 VC</b> 6219 KEYENTA PLACE NW <b>GRADING AND DRAINAGE PLAN</b>	DRAWN BY DEM
 DAVID SOULE P.E. #14522		DATE 12-23-20
	 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	LOT 2 BLK 8 UN 5 VC.DWG SHEET # <b>C1</b> JOB #