

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

June 22, 2021

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

**Re: Lot 8A Block 5 SAD 228  
Volcano Cliffs Subdivision Unit 18  
8004 Compass Dr. NW  
Grading and Drainage Plan  
Engineers Stamp Date 10/11/2020 (D10D003K8A)  
Pad Certification Date 11/6/2020  
CO Certification Dated: 6/21/2021**

PO Box 1293

Dear Mr. Soule,

Albuquerque

Based on the Certification received on 5/3/2021, 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:** 8004 COMPASS DR **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 8A BLOCK 5 VOLCANO CLIFFS UNIT 18  
**City Address:** 8004 COMPASS

**Applicant:** DERICK SANCHEZ **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

**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?

\_\_\_ 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  
\_\_\_ 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				Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs			
			Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)						
ALLOWED	10890.00	0.250	0%	20%	0.050	46%	0.115	34%	0.085	1.259	0.026	0.80
PROPOSED	10890.00	0.250	0%	20%	0.050	29%	0.0725	51%	0.128	1.426	0.030	0.87
COMPARISON											0.003	

**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      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 VOLUME REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	158
FLOOD CONTROL	151	158

**Narrative**

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the roadway per the master drainage plan. Due to height restrictions we are keeping the pad as low as possible. there is not measurable upland flow. This plan does exceed the allowed impervious area therefore propose to retain the 6-hour volume increase. 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 10/11/20 THE PAD GRADE WAS CONSTRUCTED 1.05' ABOVE DESIGN GRADE. OWNER HAS BEEN MADE AWARE OF THIS LOT BEING IN A HEIGHT RESTRICTIVE AREA.

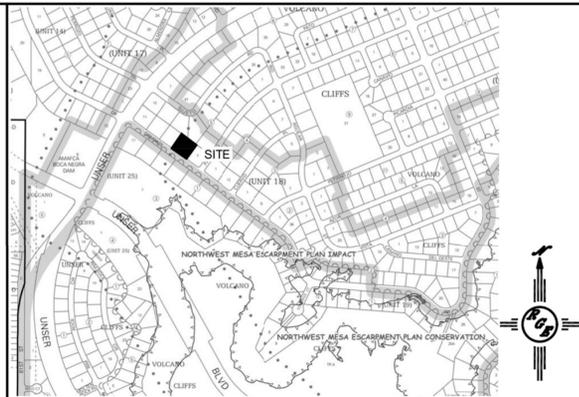
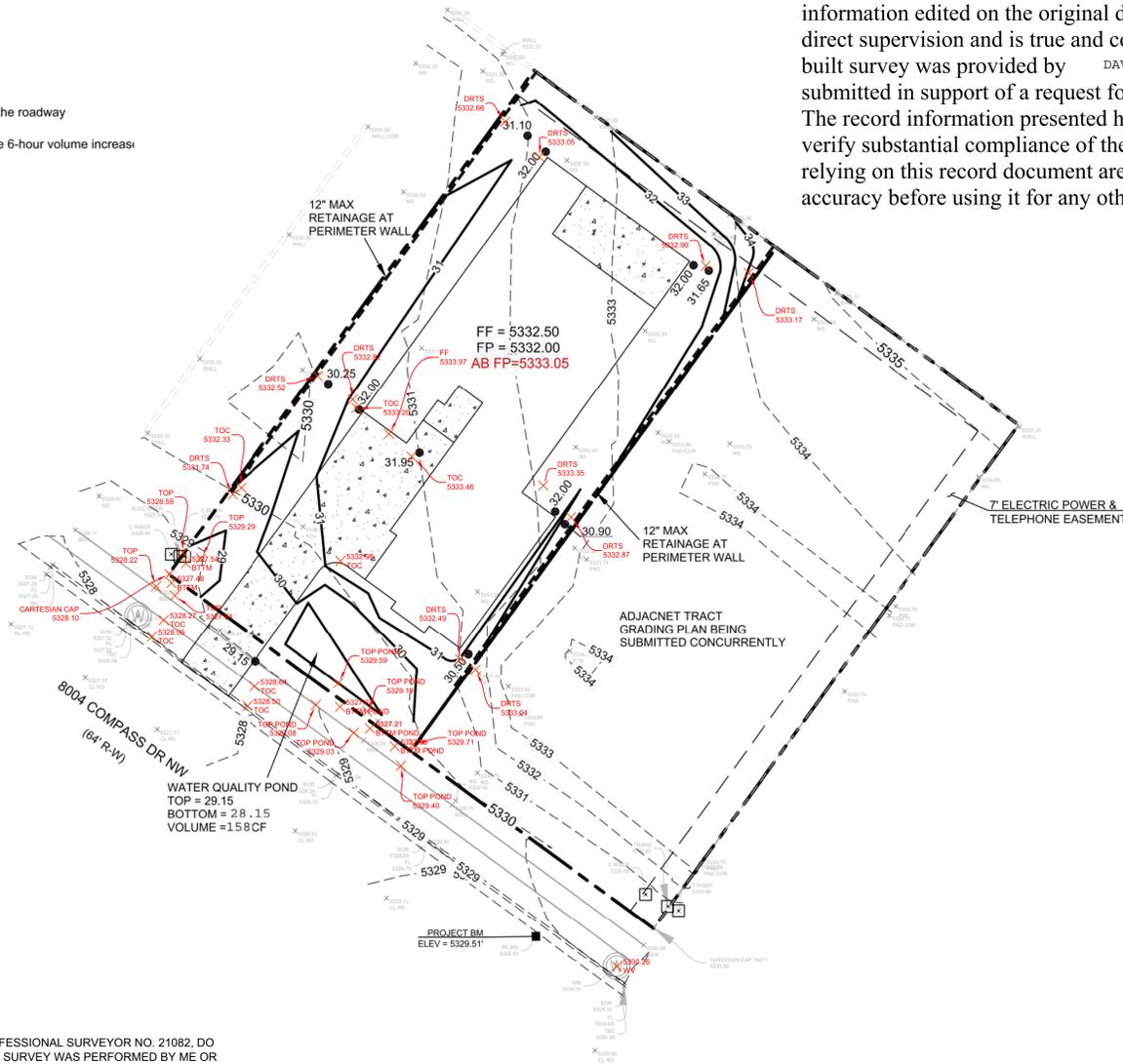


11/6/20

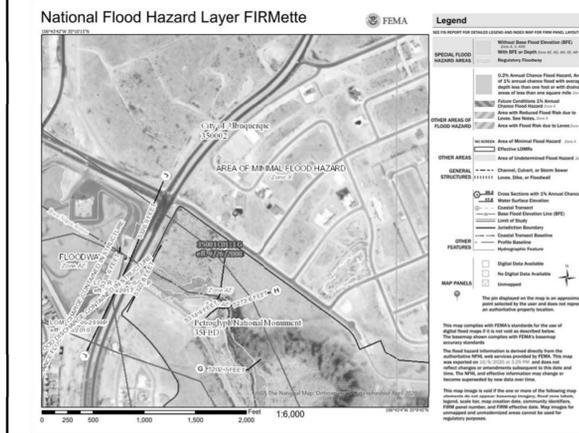
**EROSION CONTROL NOTES:**

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

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 10/11/20. 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



**VICINITY MAP: D-10-z**



**FIRM MAP:**

**LEGAL DESCRIPTION:**

LOTS 8A & 8B BLOCK 5 UNIT 18 VOLCANO CLIFFS SUBDIVISION CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

**NOTES:**

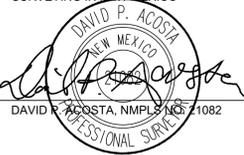
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. 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
+XXXX	EXISTING SPOT ELEVATION
●XXXX	PROPOSED SPOT ELEVATION
---	BOUNDARY
- - - - -	PROPOSED EARTHEN SWALE
- - - - -	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
XXXXXX	PROPOSED GRAVEL DRIVEWAY
-----	PROPOSED PERIMETER WALL

**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

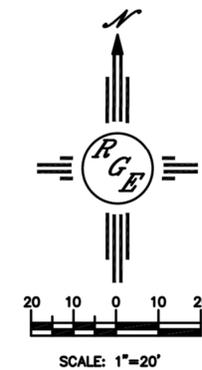


05-21-21

DATE

**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>LOTS 8A &amp; 8B BLK 5 U 18 VC</b> <b>8004 COMPASS DR NW</b>  <b>GRADING AND DRAINAGE PLAN</b>	DRAWN BY DEM
 10/11/20 DAVID SOULE P.E. #14522		DATE 10-10-20
 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	8A 8B BLK 5 U 18 VC.DWG  SHEET # <b>C1</b>	JOB #