

# CITY OF ALBUQUERQUE

Planning Department  
Brennon Williams, Director



Mayor Timothy M. Keller

April 7, 2021

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

RE: **Lot 12 Block 8 Unit 22 SAD 228  
6312 Canavio NW  
Volcano Cliffs Subdivision  
Grading and Drainage Plan  
Engineers Stamp Date 4/6/2021 (D10D003E12)**

Mr. Soule,

Based upon the information provided in your submittal received 4/6/2021, this plan is approved for Grading Permit.

**Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.**

**Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose.**

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained with the approved G&D plan and Pad Certification. Also, if a swimming pool is to be placed the grading and drainage plan will change and will need to be resubmitted.

**Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.**

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

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:** 6312 CANAVIO NW **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** LOT 12 BLOCK 8 VOLCANO CLIFFS UNIT 22  
**City Address:** 6312 CANAVIO

**Applicant:** DR HORTON **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 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?

IS THIS A RESUBMITTAL?: \_\_\_\_\_ Yes ☒ No

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

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

COA STAFF:

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

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

Weighted E Method

|            |              |                 |                          |                          |                          |                          |                       |                   |             | 100-Year, 6-hr.   |       | 24 hour |
|------------|--------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|-------------------|-------------|-------------------|-------|---------|
| Basin      | Area<br>(sf) | Area<br>(acres) | Treatment A<br>% (acres) | Treatment B<br>% (acres) | Treatment C<br>% (acres) | Treatment D<br>% (acres) | Weighted E<br>(ac-ft) | Volume<br>(ac-ft) | Flow<br>cfs | Volume<br>(ac-ft) |       |         |
| ALLOWED    | 12110.00     | 0.278           | 0%                       | 0                        | 20% 0.056                | 46%                      | 0.1279                | 34%               | 0.095       | 1.259             | 0.029 | 0.89    |
| PROPOSED   | 12110.00     | 0.278           | 0%                       | 0                        | 20% 0.056                | 42%                      | 0.1168                | 38%               | 0.106       | 1.298             | 0.030 | 0.93    |
| COMPARISON |              |                 |                          |                          |                          |                          |                       |                   |             |                   | 0.001 | 0.001   |

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

DRAINAGE SUMMARY

|               | REQUIRED<br>(CF) | PROVIDED<br>(CF) |
|---------------|------------------|------------------|
| WATER QUALITY | 0                |                  |
| FLOW CONTROL  | 58               |                  |
| Narrative     |                  |                  |

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to as much as possible to the roadway to the south per the master drainage plan. The site does exceed the SAD 228 developed conditions assumptions, therefore ponding if 58 cf is required. Due to the site not being able to drain to the street, the rear yard will retain its own water and overflow the historic location to the northwest. No upland flow enters the site. This plan is in conformance to the master drainage plan.

Project Benchmark  
Pnd Nail w/Shiner (LS 7923)  
Elev=5326.96

BUILD RETENTION POND  
TOP=5327.55  
BOTTOM=5327.00  
VOL=73 CU FT

LOWEST NATURAL  
GRADE=5326.40

60X70.58 PAD  
TF=5329.25  
FP=5328.75  
AVG NATURAL  
GRADE=5327.08

BUILD RETENTION POND  
TOP=5327.85  
BOTTOM=5327.00  
VOL=1091 CU FT

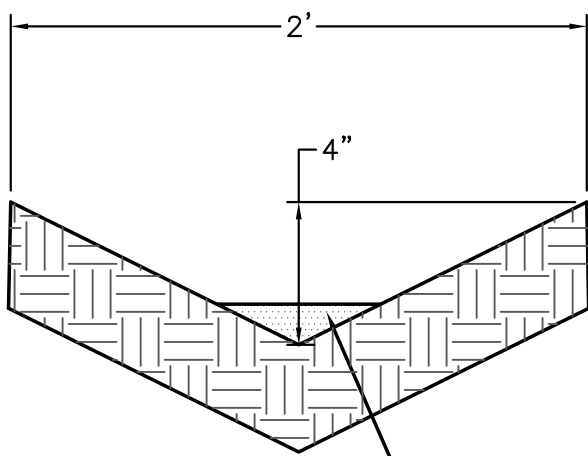
HIGHEST NATURAL  
GRADE=5327.75  
TURN 1 BLOCK @ 5328.00

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.

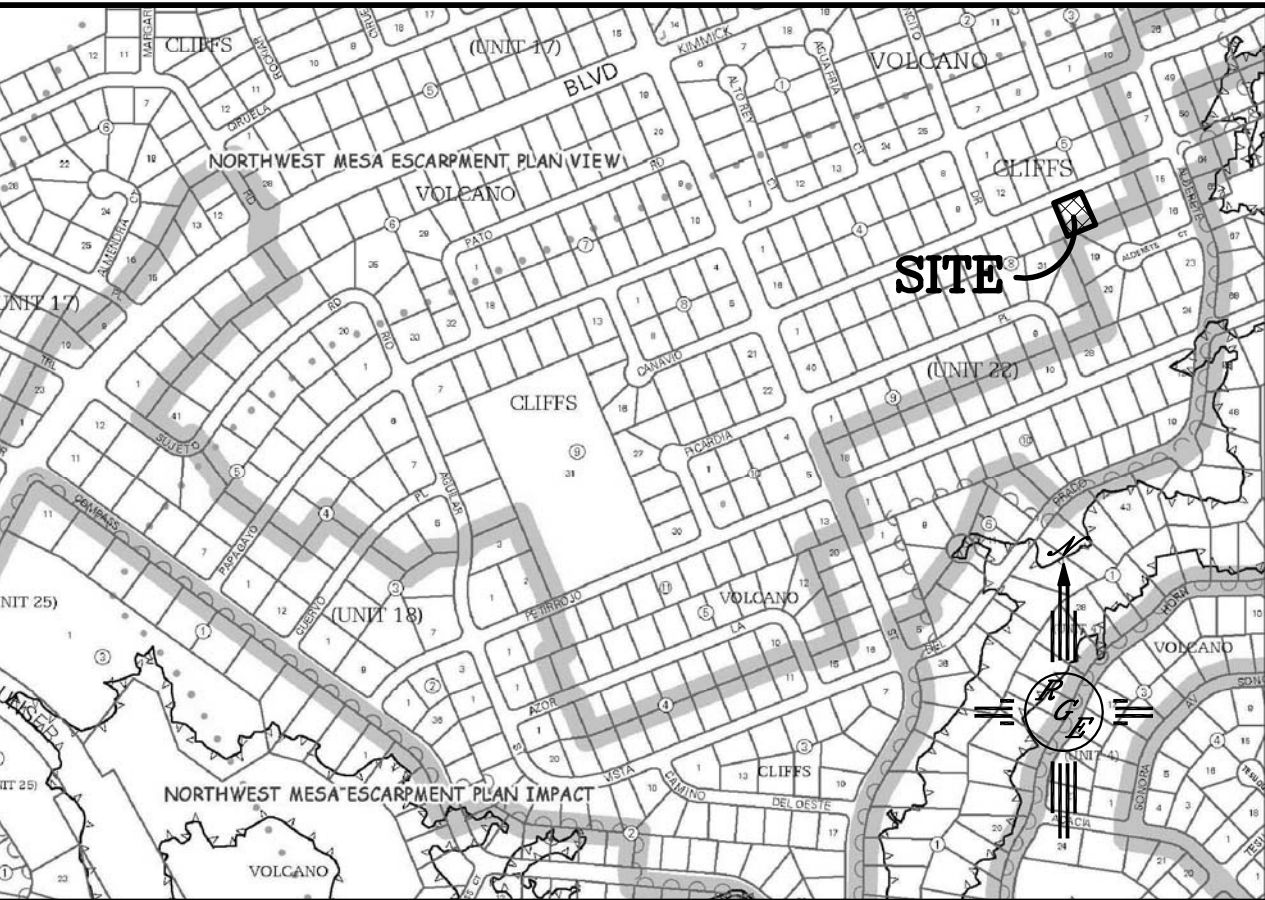
EROSION CONTROL NOTES:

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.

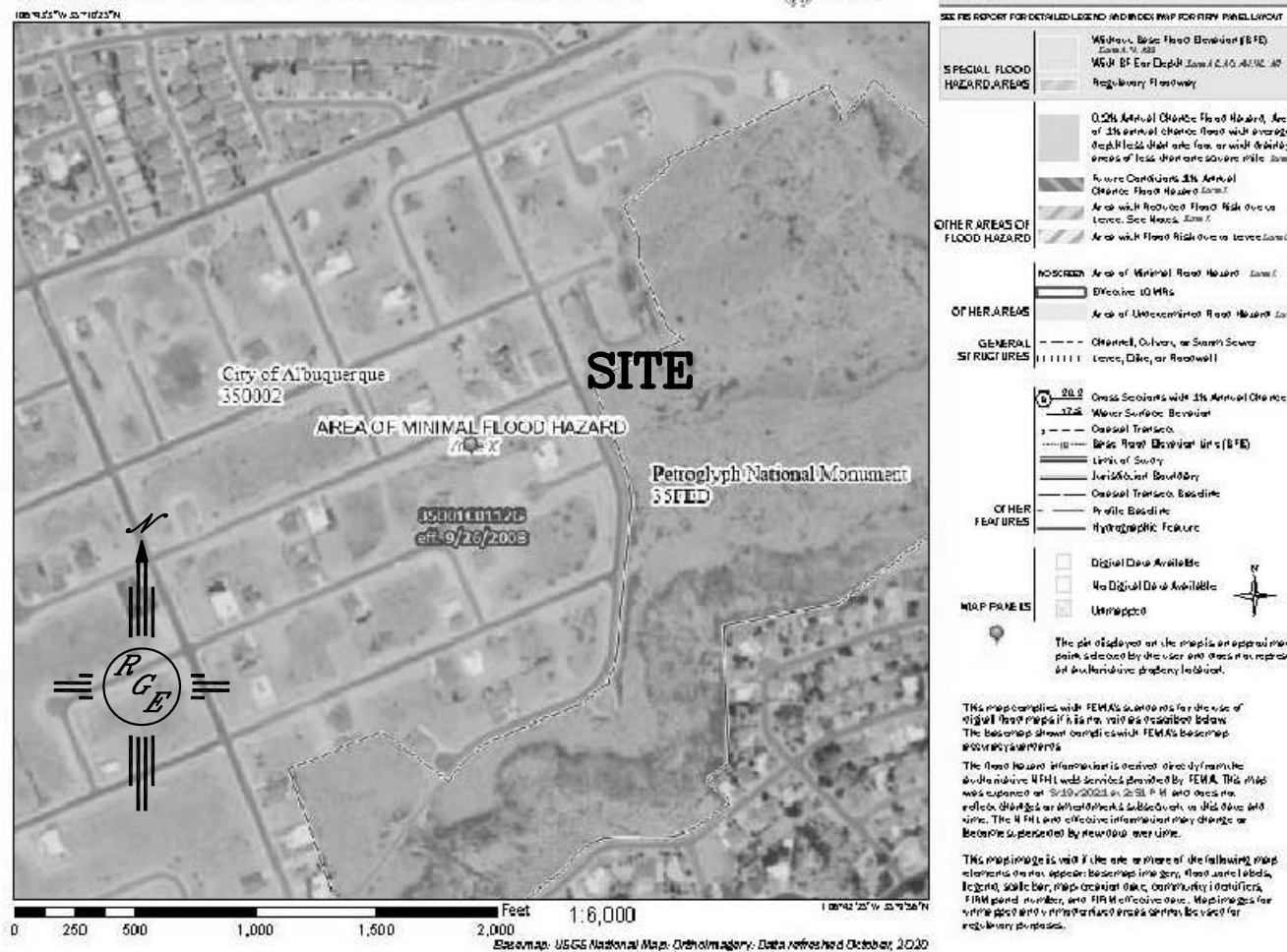


EARTHEN SWALE DETAIL

NTS



National Flood Hazard Layer FIRMette



LEGAL DESCRIPTION:

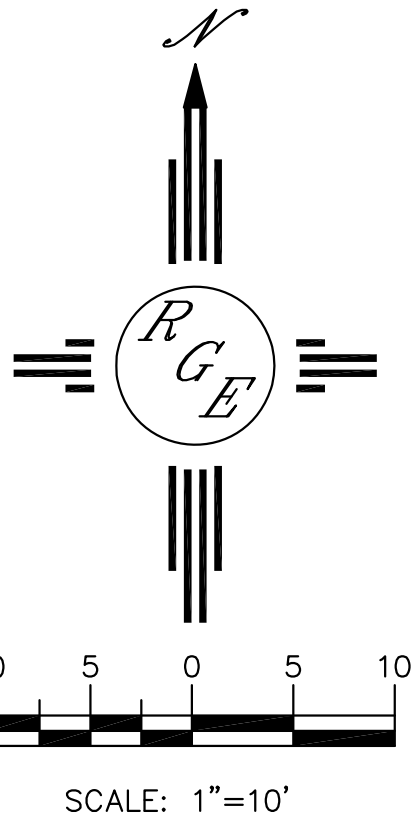
LOT 12, BLOCK 8, VOLCANO CLIFFS UNIT 22


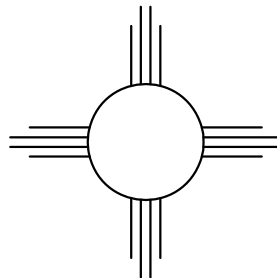
NOTES:

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.

LEGEND

|                |  |
|----------------|--|
| -----XXXX----- | EXISTING CONTOUR                             |
| -----XXXX----- | EXISTING INDEX CONTOUR                       |
| -----XXXX----- | PROPOSED CONTOUR                             |
| -----XXXX----- | PROPOSED INDEX CONTOUR                       |
| -----XXXX----- | SLOPE TIE                                    |
| + XXXX         | EXISTING SPOT ELEVATION                      |
| + XXXX         | PROPOSED SPOT ELEVATION                      |
| -----          | LOT LINE                                     |
| -----          | CENTERLINE                                   |
| -----          | RIGHT-OF-WAY                                 |
| -----          | PROPOSED 4" PVC SD                           |
| -----          | GRAVEL LINED SWALE                           |
| =====          | EXISTING CURB AND GUTTER                     |
| =====          | PROPOSED CMU RETAINING WALL-DESIGN BY OTHERS |



|  |                              |                          |
|--|------------------------------|--------------------------|
| ENGINEER'S<br>SEAL<br><br><br><br>4/6/21<br><br>DAVID SOULE<br>P.E. #14522                                      | 6312 CANAVIO                 | DRAWN<br>BY: WCVJ        |
|  | GRADING AND<br>DRAINAGE PLAN | DATE<br>3-18-21          |
| <br>Rio Grande<br>Engineering<br>1606 CENTRAL AVENUE SE<br>SUITE 201<br>ALBUQUERQUE, NM 87106<br>(505) 872-0999 |                              | 210210028-LAYOUT-3-18-21 |
|  |                              | SHEET #<br>—             |
|  |                              | JOB #<br>21021028        |